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GOVERNOR



PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20080025
Agency Interest No. 2049

Mr. Thomas A. Yura
Senior Vice President & General Manager
BASF Corporation
P. O. Box 457
Geismar, LA 70734-0457

RE: Part 70 Operating Permit, Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant, BASF Corporation, Geismar, Ascension Parish, Louisiana

Dear Mr. Yura:

This is to inform you that the permit renewal and modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 2459-V4

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN:kap
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049
BASF Corporation
Geismar, Ascension Parish, Louisiana**

I. Background

BASF Corporation (BASF) operates the Geismar Site, a chemical manufacturing complex on the east bank of the Mississippi River between I-10 and Highway 75 near Geismar, Louisiana. The Geismar Site is operated under various Part 70 Operating permits. The Geismar Site manufactures acetylene, amine compounds, aniline, 1,4-butanediol, gamma-butyrolactone, ethylene glycol, ethylene oxide, gasoline additives, glyoxal, methylenediphenyl diisocyanate, N-methyl-2-pyrrolidone, polyols, polytetrahydrofuran, polyvinylpyrrolidone, surfactants, tetrahydrofuran, toluene diisocyanate, and N-vinyl-2-pyrrolidone. The Geismar Site also produces steam and electricity for internal use and treats wastewater from the plants on site. This permit addresses the Ethylene Oxide/Ethylene Glycol (EO/EG) Plant which is currently operating under Part 70 Permit No. 2459-V3 issued on March 30, 2005 and amended on March 30, 2006.

This is the Part 70 operating permit for the EO/EG Plant.

II. Origin

A permit application and Emission Inventory Questionnaire dated December 12, 2008 were submitted by BASF Corporation requesting a Part 70 operating permit minor modification. Pursuant to 40 CFR 70.5(a)(1)(iii), for purposes of obtaining a Part 70 permit renewal, a timely application must be submitted at least six (6) months prior to the date of permit expiration. Since this permit has reached the six month window prior to the permit expiration date, BASF submitted the necessary and updated documents, dated September 30, 2009, to utilize the December 12, 2008 application submittal as a renewal application in addition to a minor modification. Additional information dated September 4, 2009, September 30, 2009, November 24, 2009, February 26, 2010, and March 30, 2010 was also received.

III. Description

The EO/EG Plant consists of an ethylene oxide (EO) production facility (the Ethylene Oxide 3 (EO3) Plant) which is based on BASF technology, an ethylene glycol (EG) production facility (the Ethylene Glycol (EG) Plant), and the Gasoline Additives Blending Facility which produces gasoline blending additives.

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Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

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Geismar, Ascension Parish, Louisiana

Ethylene Oxide 3 (EO3) Plant

Ethylene and oxygen are mixed into a gaseous recycle stream and passed through a fixed bed, multiple tube reactor packed with supported silver catalyst that is both highly selective and long lived. Most of the ethylene and oxygen react to form EO, with the balance reacting to form carbon dioxide and water. Both the reactions are highly exothermic. A coolant system dissipates the heat using boiling kerosene with subsequent condensation against boiler feed water to produce medium pressure steam.

Reactor product gas is first cooled by heat exchangers and then routed to the EO absorber where it is scrubbed with neutralized liquid to remove acidic compounds. The fat absorbent leaving the EO absorber is heated with reactor product gases and fed to the EO stripper. Overhead gas from the EO absorber is recycled and scrubbed with hot potassium carbonate in the CO₂ absorber. The carbonate solution is regenerated in the CO₂ stripper. The overhead of the CO₂ stripper is vented to the atmosphere after purification. In the EO stripper, the aqueous solution of EO is stripped with steam. The process water is cooled using heat exchangers and recycled. The crude ethylene oxide from the EO Pant is processed for recovery as high purity product. The bleed streams from EO Plant are processed in the EG Plant. EO loading is accomplished by employing a vapor balancing load system which generates no emissions from the loading of EO to railcars.

Permit No. 2459-V3 authorized the implementation of the Heat Integration Project. The Heat Integration Project consisted of new stainless steel piping installed to connect the existing vent with the pure EO tower reboiler. The new piping was installed to minimize heat loss to the atmosphere.

Ethylene Glycol (EG) Plant

The EG Plant produces glycols by the liquid phase thermal hydrolysis of EO in the presence of excess water. Ethylene oxide combines with water to feed a reactor where glycols are formed. The resulting glycol/water mixture and the glycols recovered from the glycol bleed streams are dehydrated by vacuum distillation. The Barometric Cooling Tower is used to create a vacuum on the distillation columns by condensation of steam in direct contact with cooling water in its hotwell section. Products and significant by-products of the EG Plant are monoethylene glycol, diethylene glycol, and triethylene glycol.

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BASF Corporation
Geismar, Ascension Parish, Louisiana**

Permit Description

In the permit application dated December 12, 2008 and in the revised application dated September 30, 2009, BASF requested the following changes to its current Part 70 Operating Permit (Permit No. 2459-V3):

1. To renew its Part 70 Operating Permit for the EO/EG Plant.
2. To install a new scrubber (Emission Point No. (EPN) EO06, New Scrubber Vent) to replace the existing scrubber (EPN 2-08) for the EO Plant. The new scrubber (EPN EO06) will be utilized to control emissions from the EO sources listed in the relationships section of the TEMPO Inventories Report. These sources currently vent to the existing scrubber (EPN 2-08) before venting to the EO/EG Flare (EPN 7-73). The new scrubber will be designed to comply with applicable regulatory control standards for affected sources without having to vent to the flare. However, emissions may be routed to the flare when site operations necessitate.
3. To convert storage tank FB 3301X Transmix Storage Tank (EPN 5-94) to an internal floating roof (IFR) to ensure compliance with the 95% control efficiency requirement of 40 CFR 63 Subpart EEEE (Organic Liquid Distribution (OLD) MACT). The tank (EPN 5-94) was reconfigured as an IFR through an Authorization-to-Construct (ATC) issued on September 18, 2007.
4. To add chloroform emissions to Cooling Towers CT-600 (EPN EOEG02) and CT-630 (EPN EOEG03). BASF recently conducted a survey of cooling towers at the Geismar Site to determine if there was a potential for chloroform emissions to occur. Chloroform is not a constituent of any of the cooling water treatment chemicals, nor is it in the process streams being serviced by the cooling towers. However, chloroform is sometimes formed as a byproduct from either chlorine or sodium hypochlorite and trace levels of organic compounds that reside in the raw water. Consequently, the results of the survey indicated that chloroform may be present in the Cooling Towers CT-600 and CT-630.
5. To incorporate a small source exemption granted on June 8, 2006 to increase the heat input for the flare (EPN 7-73) from 1.26 MMBTU/hr to 1.39 MMBTU/hr to account for venting of process gases.
6. To request a change of tank service for storage tank FB 7326 Triethylene Glycol Storage Tank (EPN 6-78). BASF proposes to change the service of tank FB 7326 from triethylene glycol (TEG) to SC84, a gasoline additive, as is currently stored within Tanks TK 910 (EPN 3-96) and TK 911 (EPN 4-96).
7. To install a new storage tank, TK-7343 Unimark Storage Tank (EPN EO05) to store Unimark 2458, a material similar to triethylene glycol (TEG).
8. To increase the potential throughput of the Rerun Glycol Tanks (EPNs 1-97 and 2-97) from 500 gallons per year to 5,000 gallons per year.

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In additional information dated February 26, 2010, BASF submitted the following permit changes in addition to the changes above:

1. To increase the throughput of EPN 16-90 (FB 7310 Gasoline Additive Storage Tank) from 4.5 MM gallons/year to 18 MM gallons/year.
2. To increase the throughput of EPN 3-94 (FB 7329 Gasoline Additive Storage Tank) from 2.28 MM gallons/year to 5 MM gallons/year.
3. To remove the following tanks from the permit whose ownership has been transferred to another unit's Title V permit within the BASF-Geismar Site: EPN 4-58 (FB 3310 Diethylene Glycol (DEG) Storage Tank), EPN 2-65 (FB 4323 EG Storage Tank), and EPN 8-73 (FB 5323 EG Storage Tank).
4. To separate the current truck and rail loading emission source (EPN 2-96) into three separate emission sources for clarity (EPNs 7-73(l), 2-96, and EO06(a)).
5. To remove the following tanks from the permit which have been decommissioned: EPN 1-58 (FB 3304 EG Storage Tank), EPN 2-58 (FB 3305 EG Storage Tank), EPN 5-58 (FB 3311 Poly Glycol Bottoms Storage Tank), EPN 10-58 (FB 3307 EG Storage Tank), EPN 11-58 (FB 3308 EG Storage Tank), EPN 3-72 (FB 5307 EG Storage Tank), EPN 4-72 (FB 5308 EG Storage Tank), EPN 6-73(b) (DA5205 DEG Column), EPN 6-73(c) (DA8203 EG Column), EPN 6-73(d) (DA8204 EG Recycle Column), EPN 6-73(e) (T510 Fiber Grade EG Column), EPN 6-73(f) (DA8255 DEG Recycle Column), EPN 1-85 (FB 8360 TEG Storage Tank), EPN 2-85 (FB 8361 TEG Storage Tank), EPN 3-91 (FB 7307 DEG Storage Tank), EPN 4-91 (FB 7308 DEG Storage Tank), and FB 3321 Sodium Hydroxide Storage Tank.
6. To change the EPN of TK 335 Lean Absorbent Vessel from EPN EOEG04 to EPN EO06(b) since this tank will now vent to EPN EO06, New Scrubber Vent.

New Source Review (NSR): Non-Attainment New Source Review (NNSR) and Prevention of Significant Deterioration (PSD)

The BASF Corporation – Geismar Site is located in Ascension Parish which is designated as non-attainment for ozone. This permit addresses the addition of two new emission sources and the modification/reconciliation of three existing emission sources. As shown in the Table 1, the project associated emissions increases for NO_x and VOC are well below their respective NNSR trigger level of 25 tons per year (TPY). Consequently, the NNSR program does not apply to this permit modification/renewal.

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Table 1

Pollutant	Baseline Actual Emissions (24-month period) (TPY)	Post-Project Potential to Emit (TPY)	Change	NNSR Trigger Value (TPY)
NO _x	0.38	0.41	+ 0.03	25
VOC	0.86	0.70	- 0.16	25

As shown in Table 2, the project associated emissions increases for the PSD pollutants PM₁₀, SO₂, and CO are less than their respective PSD trigger levels. Consequently, the PSD program does not apply to this permit modification/renewal.

Table 2

Pollutant	Baseline Actual Emissions (24-month period) (TPY)	Post-Project Potential to Emit (TPY)	Change	PSD Trigger Value (TPY)
PM ₁₀	0.04	0.05	+ 0.01	15
SO ₂	-	-	-	40
CO	0.45	0.50	+ 0.05	100

Permitted Emissions

Estimated emissions in tons per year for the EO/EG Plant are as follows:

Pollutant	Before	After	Change
PM ₁₀	4.05	4.20	+ 0.15
SO ₂	< 0.01	< 0.01	-
NO _x	0.38	0.41	+ 0.03
CO	0.45	0.50	+ 0.05
VOC*	28.10	37.16	+ 9.06

***VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Chloroethane	0.50	0.50	-
Chloroform	0.00	0.35	+ 0.35
Ethyl Benzene	0.58	0.97	+ 0.39

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Agency Interest No. 2049
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***VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Ethylene Glycol	4.04	3.98	- 0.06
Ethylene Oxide	0.66	0.67	+ 0.01
Formaldehyde	0.001	<0.001	-
n-Hexane	0.01	0.01	-
Naphthalene	0.02	0.01	- 0.01
Toluene	0.00	0.08	+ 0.08
Xylene (mixed isomers)	3.32	3.76	+ 0.44
Total	9.13	10.33	+ 1.20

Non-TAP VOCs:

Pollutant	Before	After	Change
Ethylene ¹	18.73	18.74	+ 0.01

¹ Highly Reactive Volatile Organic Compound (HRVOC)

Other VOC (not including Ethylene):	8.09
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Non-VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Chlorine	0.23	0.11	- 0.12

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) and Non-Attainment New Source Review (NNSR) do not apply.

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AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049
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The Geismar Site is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The Geismar Site emits the following Class I and II TAPs at rates above their respective minimum emission rates (MER) as listed in LAC 33:III.5112, Table 51.1: 1,3-butadiene, 2,4-dinitrotoluene, acetaldehyde, acrylonitrile, aniline, benzene, carbon tetrachloride, chlorobenzene, chloroform, diaminotoluene, ethylene oxide, formaldehyde, mononitrobenzene, and propylene oxide. Any emission sources emitted the above TAPs shall comply with maximum achievable control technology (MACT) requirements. Air Toxic Compliance Plan No. 92067 was approved by the Louisiana Department of Environmental Quality (LDEQ) on August 31, 1995.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in *The Gonzales Weekly Citizen*, Gonzales, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

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VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

VIII. General Condition XVII Activities

Activity	Frequency	VOC Emissions		PM Emissions	
		lb/Activity	TPY	lb/Activity	TPY
<None>					

IX. Insignificant Activities

ID No.:	Description	Citation
TK-386	Potassium Hydroxide Tank; 75,000 gal	LAC 33:III.501.B.5.B.40
D-642	Sodium Hydroxide Tank; 900 gal	LAC 33:III.501.B.5.B.40
FB-3302	Sodium Hydroxide Tank; 30,000 gal	LAC 33:III.501.B.5.B.40
-	Laboratory Equipment and Vents	LAC 33:III.501.B.5.A.6
-	Analyzer Vents	LAC 33:III.501.B.5.A.9
FB-3303	Potassium Carbonate/Bicarb Tank; 30,000 gal	LAC 33:III.501.B.5.A.10
TK-200	Marker Slurry Tank; 500 gal	LAC 33:III.501.B.5.A.3
TK-201B	Dye Tank; 500 gal	LAC 33:III.501.B.5.A.3
-	Dye Mix Tank; <250 gal	LAC 33:III.501.B.5.A.2
-	Mortrace Dye Tank; 3,000 gal	LAC 33:III.501.B.5.A.3
FB-7341	Holding Tank; <250 gal	LAC 33:III.501.B.5.A.2
-	Water Washing of Drums	LAC 33:III.501.B.5.A.7

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2121	2122	2147	2153	29*	51*	53*	56
UNF0010	EO/EG Plant	1	1	1	1											1	1	1	1
EQT0033	3-58, FB 3309 Ethylene Glycol Storage Tank																		1
EQT0048	6-58, FB 3314 Ethylene Glycol Storage Tank																		1
EQT0052	7-58, FB 3315 Triethylene Glycol Storage Tank																		3
EQT0057	8-58, FB 3319 Ethylene Glycol Storage Tank																		1
EQT0027	12-58, FB 3320 SC84/SC83 Storage Tank																		3
EQT0021	1-65, FB 4322 Ethylene Glycol Storage Tank																		1
EQT0034	3-65, FB 4325 Ethylene Glycol Storage Tank																		1
EQT0049	6-73, EO/EG Barometric Cooling Tower																		1
EQT0053	7-73, EO/EG Flare																		1
EQT0070	7-73(b), DC8201 Glycol Reactor															3			3
EQT0054	7-73(j), FB 3316 Gasoline Additive Storage Tank																		1
EQT0055	7-73(k), FB 3317 Blend Tank																		1
EQT0759	7-73(l), Gas Additive Truck and Rail Loading (Controlled)																		
EQT0060	9-73, FB 5324 Gasoline Additive Storage Tank																		1
EQT0050	6-78, FB 7326 SC84 Storage Tank																		3
EQT0056	7-78, FB 7327 Gasoline Additive Raw Material Tank																		3

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BASF Corporation**Geismar, Ascension Parish, Louisiana****X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III:Chapter																		
		5*	9	11	13	15	2103	2107	2111	2113	2115	2121	2122	2147	2153	29*	51*	53*	56	59*
EQT0059	8-78, FB 7328 Gasoline Additive Storage Tank																			
FUG0004	4-87, EO/EG/Gas Additives Fugitives	1						1											1	1
EQT0028	16-90, FB 7310 Gasoline Additive Storage Tank																			1
EQT0023	1-94, FB 7300 PIBA Storage Tank																			1
EQT0037	3-94, FB 7329 Gasoline Additive Storage Tank																			1
EQT0042	4-94, FB 4324 Gasoline Additive Storage Tank																			1
EQT0047	5-94, FB 3301X Xylene TransMix Storage Tank																			1
EQT0051	6-94, TK 1004 Gasoline Additive Storage Tank																			1
EQT0760	2-96, Gas Additives Truck and Rail Loading (Uncontrolled)																			1
EQT0038	3-96, TK 910 Puradd SC84 Tank																			1
EQT0043	4-96, TK 911 Puradd SC84 Tank																			1
EQT0024	1-97, Rerun Glycol Tank																			1
EQT0032	2-97, Rerun Glycol Tank																			-
EQT0044	4-98, CO ₂ Removal System Vent																			2
EQT0045	4-98ALT, Alternate CO ₂ Removal System Vent																			2
EQT0737	4-98(a), R-300 Reactor																			1
EQT0738	4-98(b), T-320 Column																			1

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2121	2122	2147	2153	29*	51*	53*	56	59*
EQT0061	EOEG02, CT-600 PEO Cooling Tower																			1
EQT0062	EOEG03, CT-630 EO3 Cooling Tower																			1
EQT0071	Group 2 Streams – Process Wastewater																			3
EQT0072	Non-OHAP Streams – Process Wastewater																			3
EQT0734	EO05, TK-7343 Unimark Storage Tank																			3
EQT0735	EO06, New Scrubber Vent																			2
EQT0761	EO06(a), EO Truck and Rail Loading																			2
EQT0762	EO06(b), TR 335 Lean Absorbent Vessel																			1
EQT0736	Analyzer Vents																			1
EQT0740	740, PEO Tower Casting																			
EQT0741	741, PEO Tower																			
EQT0742	742, Tank Farm Equipment																			
EQT0743	743, Railcar/Tank Purging																			
EQT0744	744, EO Tank HIC Valves																			
EQT0745	745, PEO Column Overheads (through PZV-38505B and HV-38630)																			
EQT0746	746, PEO Column Casing P-335A/B Seal Pots																			
EQT0747	747, P-7309A/B Seal Pots																			

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2121	2122	2147	2153	29*	51*	53*	56
EQT0748	748, EO Load Rack Eductor Discharge																		
EQT0749	749, Railcar Cleaning Station Vent																		
EQT0750	750, EO Storage Equalization Vent																		
EQT0751	751, Storage Spheres (FB7100, FB-5312, FB3312, FB3313)																		
EQT0752	752, EO Re-Run Bullets (FA-3301, FA-3302)																		
EQT0753	753, EO Storage Sphere Auto-Refrigeration Vent (HV-74001/HV-74002)																		
EQT0754	754, EO Re-Run Bullets Auto-Refrigeration Vent (HV-7121/HV-7122)																		
EQT0755	755, PSV Discharges																		
EQT0756	756, Glycol Bleed Storage Tank Vent FA-3155																		
EQT0757	757, P-450 A/B Seal Pots																		
EQT0758	758, P-455 A/B Seal Pots																		

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylen Oxide (EO)/Ethylene Glycol (EG) Plant
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KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	K	K _a	K _b	VV	NNN	RRR	YY	A	M	FF	A	F	G	H	Q	SS	WW	EEE	64	68	82				
UNF0010	EO/EG Plant	1								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
EQT0033	3-58, FB 3309 Ethylene Glycol Storage Tank	3	3	3																							
EQT0048	6-58, FB 3314 Ethylene Glycol Storage Tank	3	3	3																							
EQT0052	7-58, FB 3315 Triethylene Glycol Storage Tank	3	3	3																							
EQT0057	8-58, FB 3319 Ethylene Glycol Storage Tank	3	3	3																							
EQT0027	12-58, FB 3320 SC84/SC83 Storage Tank	3	3	3																							
EQT0021	1-65, FB 4322 Ethylene Glycol Storage Tank	3	3	3																							
EQT0034	3-65, FB 4325 Ethylene Glycol Storage Tank	3	3	3																							
EQT0049	6-73, EO/EG Barometric Cooling Tower																										
EQT0053	7-73, EO/EG Flare																										
EQT0070	7-73(b), DC8201 Glycol Reactor																										
EQT0054	7-73(l), FB 3316 Gasoline Additive Storage Tank	3	3	3																							
EQT0055	7-73(k), FB 3317 Blend Tank	3	3	3																							
EQT0759	7-73(l), Gas Additive Truck and Rail Loading (Controlled)																										
EQT0060	9-73, FB 5324 Gasoline Additive Storage Tank	3	3	3																							
EQT0050	6-78, FB 7326 SC84 Storage Tank	3	3	3																							

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	K	Ka	Kb	VV	NNN	RRR	YYY	A	M	FF	A	F	G	H	Q	SS	WW	EEEE	WW	EEEEE	64	68	82	
EQT0056	7-78, FB 7327 Gasoline Additive Raw Material Tank	3	3	3																						
EQT0059	8-78, FB 7328 Gasoline Additive Storage Tank	3	3	3																						
FUG0004	4-87, EO/EG/Gas Additives Fugitives								1																	
EQT0028	16-90, FB 7310 Gasoline Additive Storage Tank	3	3	3																						
EQT0023	1-94, FB 7300 PIBA Storage Tank	3	3	3																						
EQT0037	3-94, FB 7329 Gasoline Additive Storage Tank	3	3	3																						
EQT0042	4-94, FB 4324 Gasoline Additive Storage Tank	3	3	3																						
EQT0047	5-94, FB 3301 X Xylene TransMix Storage Tank	3	3	3																						
EQT0051	6-94, TK 1004 Gasoline Additive Storage Tank	3	3	3																						
EQT0760	2-96, Gas Additives Truck and Rail Loading (Uncontrolled)																									
EQT0038	3-96, TK 910 Puradd SC84 Tank	3	3	3																						
EQT0043	4-96, TK 911 Puradd SC84 Tank	3	3	3																						
EQT0024	1-97, Rerun Glycol Tank	3	3	3																						
EQT0032	2-97, Rerun Glycol Tank	3	3	3																						
EQT0044	4-98, CO ₂ Removal System Vent																									
EQT0045	4-98 ALT, Alternate CO ₂ Removal System Vent																									

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	K	K _a	K _b	VV	NNN	RRR	YYY	A	M	FF	A	F	G	H	Q	SS	WW	EEEE	64	68	82				
EQT0737	4-98(a), R-300 Reactor								1												1	1					
EQT0738	4-98(b), T-320 Column							1													1	1					
EQT0061	EOEG02, CT-600 PEO Cooling Tower																				1		3				
EQT0062	EOEG03, CT-630 EO3 Cooling Tower																				1		3				
EQT0071	Group 2 Streams – Process Wastewater																				1	1					
EQT0072	Non-OHAP Streams – Process Wastewater																				3	3					
EQT0734	EO05, TK-7343 Unimark Storage Tank							3	3	3											3	3					
EQT0735	EO06, New Scrubber Vent																				1	1	3	3			
EQT0761	EO06(a), EO Truck and Rail Loading																				2						
EQT0762	EO06(b), TK 335 Lean Absorbent Vessel																				1	1					
EQT0736	Analyzer Vents																										
EQT0740	740, PEO Tower Casing																										
EQT0741	741, PEO Tower																										
EQT0742	742, Tank Farm Equipment																										
EQT0743	743, Railcar/Tank Purging																										
EQT0744	744, EO Tank HIC Valves																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR					
		A	K	Ka	Kb	VV	NNN	RRR	YYY	A	M	FF	A	F	G	H	Q	SS	WW	EEE	EE	64	68	82	
EQT0745	745, PEO C Column Overheads (through PZV-38505B and HV-38630)																								
EQT0746	746, PEO C Column Casing P-335A/B Seal Pots																								
EQT0747	747, P-7309 A/B Seal Pots																								
EQT0748	748, EO Load Rack Eductor Discharge																								
EQT0749	749, Railcar Cleaning Station Vent																								
EQT0750	750, EO Storage Equalization Vent																								
EQT0751	751, Storage Spheres (FB7100, FB-5312, FB3312, FB3313)																								
EQT0752	752, EO Re-Run Bullets (FA-3301, FA-3302)																								
EQT0753	753, EO Storage Sphere Auto-Refrigeration Vent (HV-74001/HV-74002)																								
EQT0754	754, EO Re-Run Bullets Auto-Refrigeration Vent (HV-7121/HV-7122)																								
EQT0755	755, PSV Discharges																								
EQT0756	756, Glycol Bleed Storage Tank Vent FA-3155																								
EQT0757	757, P-450 A/B Seal Pots																								
EQT0758	758, P-455 A/B Seal Pots																								

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049
BASF Corporation
Geismar, Ascension Parish, Louisiana

KEY TO MATRIX

- 1** - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2** - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3** - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation**Geismar, Ascension Parish, Louisiana****XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
UNF0010	EO/EG Plant	40 CFR 64 – Compliance Assurance Monitoring (CAM)	DOES NOT APPLY. No control device used to achieve compliance with any standard or emission limit. [40 CFR 64.2(a)(2)]
EQT0033	3-58, FB 3309 Ethylene Glycol Storage Tank	LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III.2103.A, B]
EQT0048	6-58, FB 3314 Ethylene Glycol Storage Tank		
EQT0057	8-58, FB 3319 Ethylene Glycol Storage Tank		
EQT0021	1-65, FB 4322 Ethylene Glycol Storage Tank		
EQT0034	3-65, FB 4325 Ethylene Glycol Storage Tank		
		40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110a(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued)			
EQT0033	3-58, FB 3309 Ethylene Glycol Storage Tank	40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Tanks were constructed before July 23, 1984. [40 CFR 60.110(b)(a)]
EQT0048	6-58, FB 3314 Ethylene Glycol Storage Tank		
EQT0057	8-58, FB 3319 Ethylene Glycol Storage Tank		
EQT0021	1-65, FB 4322 Ethylene Glycol Storage Tank		
EQT0034	3-65, FB 4325 Ethylene Glycol Storage Tank		
EQT0052	7-58, FB3315 Triethylene Glycol Storage Tank	LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III.2103.A, B]
		LAC 33:III.5109.A – Comprehensive Toxic Air Pollutant (TAP) Emission Control Program – Emission Control and Reduction Requirements and Standards	DOES NOT APPLY. Tanks do not store a TAP. [LAC 33:III.5109]
		40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0052	7-58, FB3315 Triethylene Glycol Storage Tank	40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Tanks were constructed before July 23, 1984 and have not been modified or reconstructed. [40 CFR 60.110b(a)]
EQT0027 EQT0050	12-58, FB 3320 SC84/SC83 Storage Tank 6-78, FB 7326 SC84 Storage Tank	40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (HON)	DOES NOT APPLY. Tanks do not store an organic HAP (OHAP).
	LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III.2103.A, B]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0027 EQT0050	12-58, FB 3320 SC84/SC83 Storage Tank 6-78, FB 7326 SC84 Storage Tank	LAC 33:III.5109.A - Comprehensive Toxic Air Pollutant (TAP) Emission Control Program – Emission Control and Reduction Requirements and Standards	DOES NOT APPLY. Tanks do not store a TAP. [LAC 33:III.5109]
		40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Tanks were constructed before July 23, 1984 and have not been modified or reconstructed. 40 CFR 60.110b(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0027 EQT0050	12-58, FB 3320 SC84/SC83 Storage Tank 6-78, FB 7326 SC84 Storage Tank	40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (HON)	DOES NOT APPLY. Tanks are part of the Gasoline Additives Blending Facility which is not a SOCMi unit.
		40 CFR 63 Subpart SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, Routing to a Fuel Gas System or a Process	DOES NOT APPLY. Tanks do not meet the applicability criteria under 40 CFR 63.980 since another subpart does not reference the use of this subpart. Therefore, these tanks are not subject to the control requirements under this subpart.
EQT0056	7-78, FB 7327 Gasoline Additive Blend Tank	40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants (NESHAP): Organic Liquids Distribution (Non-Gasoline)	DOES NOT APPLY. Tanks do not store any of the OHAPs listed in Table 1 of this Subpart.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0056	7-78, FB 7327 Gasoline Additive Blend Tank	40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Tank was constructed before July 23, 1984 and has not been modified or reconstructed. 40 CFR 60.110(b)(a)]
		40 CFR 63 Subparts F & G – National Emission Standards for Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (HON)	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a SOCM1 unit.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
 Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0056	7-78, FB 7327 Gasoline Additive Blend Tank	40 CFR 63 Subpart SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, Routing to a Fuel Gas System or a Process	DOES NOT APPLY. Tank does not meet the applicability criteria under 40 CFR 63.980 since another subpart does not reference the use of this subpart. Therefore, this tank is not subject to the control requirements under this subpart.
		40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants (NESHAP): Organic Liquids Distribution (Non-Gasoline)	DOES NOT APPLY. The annual average true vapor pressure of the material stored is less than 0.7 kilopascals (0.1 psia); therefore, the stored material does not meet the definition of <i>organic liquid</i> as defined in 40 CFR 63.2406.
EQT0049	6-73, EO/EG Barometric Cooling Tower	40 CFR 63 Subpart F – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (HON)	DOES NOT APPLY. The provisions of this Subpart do not apply to direct contact cooling towers. [40 CFR 63.104]
EQT0053	7-73, EO/EG Flare	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	DOES NOT APPLY. Cooling tower is not operated with chromium-based water treatment chemicals. [40 CFR 63.400(a)] DOES NOT APPLY. Source emits less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation**Geismar, Ascension Parish, Louisiana****XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No: <i>(continued)</i> EQT0053	Description 7-73, EO/EG Flare	Requirement	Notes
		40 CFR 63 Subpart SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, Routing to a Fuel Gas System or a Process	DOES NOT APPLY. This Subpart is not referenced for applicability by another Subpart.
		40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants (NESHAP); Organic Liquids Distribution (Non-Gasoline)	DOES NOT APPLY. Source does not receive any streams from equipment subject to this Subpart.
		LAC 33:III.2115 – Control of Emission of Organic Compounds – Waste Gas Disposal	DOES NOT APPLY. Source is a liquid phase reactor with no vent stream discharging to the atmosphere. [LAC 33:III.2115]
		LAC 33:III.2147 – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	DOES NOT APPLY. Source is a liquid phase reactor with no vent stream discharging to the atmosphere. [LAC 33:III.2147.A.1]
			DOES NOT APPLY. Source does not emit a Toxic Air Pollutant (TAP) Emission Control Program – Emission Control and Reduction Requirements and Standards
		40 CFR 60 Subpart RRR – Standards of Performance for VOC Emissions from SOCMI Reactor Processes	DOES NOT APPLY. Source is a liquid phase reactor with no vent stream discharging to the atmosphere. [40 CFR 60.700(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0070	7-73(b), DC8201 Glycol Reactor	40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (HON)	DOES NOT APPLY. Source is a liquid phase reactor with no process vent as defined in 40 CFR 63.101.
EQT0054 EQT0055	7-73(j), FB 3316 Gasoline Additive Storage Tank 7-73(k), FB 3317 Blend Tank	LAC 33:III 2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III 2103.A]
		40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart K _a - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0054 EQT0055	7-73(j), FB 3316 Gasoline Additive Storage Tank 7-73(k), FB 3317 Blend Tank	40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Material stored has a vapor pressure of less than 0.51 psia. [40 CFR 60.110(b)(b)]
		40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) - HON	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a SOCMI unit.
		40 CFR 63 Subpart SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, and Routing to a Fuel Gas System or a Process	DOES NOT APPLY. Tanks do not meet the applicability criteria under 40 CFR 63.980 since another subpart does not reference the use of this subpart. Therefore, these tanks are not subject to the control requirements under this subpart.
		40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants (NESHAP): Organic Liquids Distribution (Non-Gasoline)	DOES NOT APPLY. The annual average true vapor pressure of the material stored is less than 0.7 kilopascals (0.1 psia); therefore, the stored material does not meet the definition of <i>organic liquid</i> as defined in 40 CFR 63.2406.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation**Geismar, Ascension Parish, Louisiana****XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
EQT0759	7-73(1), Gas Additives Truck and Rail Loading (Controlled)	LAC 33:III.2107 – Control of Emission of Organic Compounds: VOC Loading	DOES NOT APPLY. The loading operation does not handle VOCs having a true vapor pressure at loading conditions of 1.5 psia or greater. [LAC 33:III.2107.A.]
		40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) - HON	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a SOCMI unit.
EQT0734	EO05, TK-7343 Unimark Storage Tank	40 CFR 63 Subpart SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, Routing to a Fuel Gas System or a Process	DOES NOT APPLY. This Subpart is not referenced for applicability by another Subpart.
		40 CFR 63 Subpart EEEE – Nation al Emission Standards for Hazardous Air Pollutants (NESHAP): Organic Liquids Distribution (Non-Gasoline)	DOES NOT APPLY. The material loaded does not meet the definition of <i>organic liquid</i> as defined in 40 CFR 63.2406 since the annual average true vapor pressure of the material is less than 0.1 psia.
		LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III.2103.A]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0734	EO05, TK-7343 Unimark Storage Tank	LAC 33:III.5109.A - Comprehensive Toxic Air Pollutant (TAP) Emission Control Program – Emission Control and Reduction Requirements and Standards	DOES NOT APPLY. Tanks do not store a TAP. [LAC 33:III.5109]
		40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Tank volumes are less than 75 cubic meters (19,800 gallons). [40 CFR 60.110b(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation**Geismar, Ascension Parish, Louisiana****XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
(continued) EQTR0734	EO005, TK-7343 Unimark Storage Tank	40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) - HON	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a SOCMI unit.
FUG0004	4-87, EO/EG/Gasoline Additives Fugitives	LAC 33:III.2121 – Control of Emission of Organic Compounds: Fugitive Emission Control	DOES NOT APPLY. Sources in the EO3 and EG Plants, excluding the Gasoline Additives Blending Facility which is not a SOCMI Unit, are also subject to LAC 33:III.2122 and are not required to comply with the provisions of this Section. [LAC 33:III.2122.A.5]
		LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY. This Section does not apply to the Gasoline Additives Blending Facility since it is not a SOCMI unit. It does, however, apply to equipment in the EO3 and EG Plants which are in VOC service but not in OHAP service as defined in 40 CFR 63.161.
		40 CFR 60 Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a SOCMI unit.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylen Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation**Geismar, Ascension Parish, Louisiana****XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
(continued) FUG0004	4-87, EO/EG/Gasoline Additives Fugitives	40 CFR 60 Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry	DOES NOT APPLY. The EG Plant was constructed prior to January 5, 1981 and has not been modified. [40 CFR 60.480(b)] The EO3 Plant has components in VOHAP service that are subject to 40 CFR 63 Subpart H (HON). According to 40 CFR 63.160(b)(1), equipment that are subject to the provisions of HON and to those of a Subpart in 40 CFR Part 60 are required to comply only with the provisions of 40 CFR 63 Subpart H (HON).
		40 CFR 63 Subpart H (HON) – National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a chemical manufacturing process unit (CMPU) as defined in 40 CFR 63.101. It is, however, subject to 40 CFR 63 Subpart EEEE (NESHAP – Organic Liquid Distribution).
EQT0060 EQT0059 EQT0028 EQT0023 EQT0037 EQT0042 EQT0051	9-73, FB 5324 Gasoline Additive Storage Tank 8-78, FB 7328 Gasoline Additive Storage Tank 16-90, FB 7310 Gasoline Additive Storage Tank 1-94, FB 7300 PIBA Storage Tank 3-94, FB 7329 Gasoline Additive Storage Tank 4-94, FB 4324 Gasoline Additive Storage Tank 6-94, TK 1004 Gasoline Additive Storage Tank	LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III.2103.A, B]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation**Geismar, Ascension Parish, Louisiana****XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
(continued)			DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
EQT0060	9-73, FB 5324 Gasoline Additive Storage Tank	40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	
EQT0059	8-78, FB 7328 Gasoline Additive Storage Tank		
EQT0028	16-90, FB 7310 Gasoline Additive Storage Tank		
EQT0023	1-94, FB 7300 PIBA Storage Tank		
EQT0037	3-94, FB 7329 Gasoline Additive Storage Tank		
EQT0042	4-94, FB 4324 Gasoline Additive Storage Tank		
EQT0051	6-94, TK 1004 Gasoline Additive Storage Tank		
		40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Material stored has a vapor pressure of less than 0.51 psia. [40 CFR 60.110(b)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued)			
EQT0060	9-73, FB 5324 Gasoline Additive Storage Tank	40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) - HON	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a SOCMI unit.
EQT0059	8-78, FB 7328 Gasoline Additive Storage Tank		
EQT0028	16-90, FB 7310 Gasoline Additive Storage Tank		
EQT0023	1-94, FB 7300 PIBA Storage Tank		
EQT0037	3-94, FB 7329 Gasoline Additive Storage Tank		
EQT0042	4-94, FB 4324 Gasoline Additive Storage Tank		
EQT0051	6-94, TK 1004 Gasoline Additive Storage Tank		
			DOES NOT APPLY. Tanks do not meet the applicability criteria under 40 CFR 63.980 since another subpart does not reference the use of this subpart. Therefore, these tanks are not subject to the control requirements under this subpart.
			DOES NOT APPLY. The annual average true vapor pressure of the material stored is less than 0.7 kilopascals (0.1 psia); therefore, the stored material does not meet the definition of <i>organic liquid</i> as defined in 40 CFR 63.2406.
			DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III:2103.B]
EQT0047	5-94, FB 3301X Xylene TransMix Storage Tank	LAC 33:III:2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
 Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0047	5-94, FB 3301X Xylene TransMix Storage Tank	40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(b)]
EQT0760	2-96, Gasoline Additives Truck and Rail Loading (Uncontrolled)	LAC 33:III.2107 – Control of Emission of Organic Compounds; VOC Loading	DOES NOT APPLY. The loading operation does not handle VOCs having a true vapor pressure at loading conditions of 1.5 psia or greater. [LAC 33:III.2107.A.1]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation**Geismar, Ascension Parish, Louisiana****XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
(continued) EQT0760	2-96. Gasoline Additives Truck and Rail Loading (Uncontrolled)	40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) - HON	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a SOCMI unit.
		40 CFR 63 Subpart SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, Routing to a Fuel Gas System or a Process	DOES NOT APPLY. This Subpart is not referenced for applicability by another Subpart.
EQT0038 EQT0043	3-96, TK 910 Puradd SC84 Tank 4-96, TK 911 Puradd SC84 Tank	40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants (NESHAP): Organic Liquids Distribution (Non-Gasoline)	DOES NOT APPLY. The annual average true vapor pressure of the material loaded is less than 0.7 kilopascals (0.1 psia); therefore, the stored material does not meet the definition of <i>organic liquid</i> as defined in 40 CFR 63.2406.
		LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III.2103.B]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0038 EQR0043	3-96, TK 910 Puradd SC84 Tank 4-96, TK 911 Puradd SC84 Tank	40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Material stored has a vapor pressure of less than 0.51 psia. [40 CFR 60.110(b)]
		40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Manufacturing Industry (SOCMI) - HON	DOES NOT APPLY. The Gasoline Additives Blending Facility is not a SOCMI unit.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0038 EQT0043	3-96, TK 910 Puradd SC84 Tank 4-96, TK 911 Puradd SC84 Tank	40 CFR 63 Subpart SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, and Routing to a Fuel Gas System or a Process	DOES NOT APPLY. Tanks do not meet the applicability criteria under 40 CFR 63.980 since another subpart does not reference the use of this subpart. Therefore, these tanks are not subject to the control requirements under this subpart.
		40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants (NEESHAP); Organic Liquids Distribution (Non-Gasoline)	DOES NOT APPLY. The material stored in these tanks do not meet the definition of <i>organic liquid</i> as defined in 40 CFR 63.2406 since the annual average true vapor pressure of the stored material is less than 0.1 psia.
EQT0024 EQT0032	1-97, Rerun Glycol Tank 2-97, Rerun Glycol Tank	LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III.2103.A]
		40 CFR 60 Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Material stored is not a petroleum liquid. [40 CFR 60.110(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0024 EQT0032	1-97, Rerun Glycol Tank 2-97, Rerun Glycol Tank	40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Tank volumes are less than 75 cubic meters (19,800 gallons). [40 CFR 60.110(b)(a)]
		40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) - HON	DOES NOT APPLY. Tanks do not meet the definition of <i>storage vessel</i> as defined in 40 CFR 63.101 since the volumes of the tanks are less than 38 m ³ (10,000 gallons).
EQT0044 EQT0045 EQT0737 EQT0738	4-98, CO ₂ Removal System Vent 4-98ALT, Alternate CO ₂ Removal System Vent 4-98(a), R300 Reactor 4-98(b), T-320 Column	LAC 33:III.2115 – Control of Emission of Organic Compounds – Waste Gas Disposal	EXEMPT. The concentration of VOCs in the waste gas stream is less than 0.044 psia true partial pressure (3,000 ppm). [LAC 33:III.2115.H.1.d]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant**

Agency Interest No. 2049

BASF Corporation**Geismar, Ascension Parish, Louisiana****XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
<i>(continued)</i>			
EQT0044 4.98, CO ₂ Removal System Vent	LAC 33:III.2147 – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	EXEMPT. Sources are subject to NESHAP 40 CFR 63 Subpart G and NSPS 40 CFR 60 Subpart NNN (4.98(b)) or RRR (4.98(a)). [Note: 4.98(a) and 4.98(b) are both included in 4.98 and 4.98ALT, but are included as separate equipment in this permit due to their differing equipment types/requirements. Equipment specific requirements are assigned to 4.98(a) and 4.98(b), while the emissions are assigned to 4.98 and 4.98ALT.] [LAC 33:III.2147.A.2.g]	
EQT0045 4.98ALT, Alternate CO ₂ Removal System Vent		DOES NOT APPLY. Cooling towers are not operated with chromium-based water treatment chemicals. [40 CFR 63.400(a)]	
EQT0737 4.98(a), R300 Reactor		EXEMPT. The concentration of VOCs in the waste gas stream is less than 0.044 psia true partial pressure (3,000 ppm). [LAC 33:III.2115.H.1.d]	
EQT0738 4.98(b), T-320 Column			
EQT0061 EOEG02, CT-600 PEO Cooling Tower	40 CFR 63 Subpart Q – NESHAP for Industrial Process Cooling Towers		
EQT0062 EOEG03, CT-630 EO3 Cooling Tower			
EQT0735 EO06, New Scrubber Vent	LAC 33:III.2115 – Control of Emission of Organic Compounds – Waste Gas Disposal		
	LAC 33:III.2147 – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	EXEMPT. Source is subject to NESHAP 40 CFR 63 Subpart G. [LAC 33:III.2147.A.2.g]	
	40 CFR 63 Subpart SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, Routing to a Fuel Gas System or a Process	DOES NOT APPLY. This Subpart is not referenced for applicability by another Subpart.	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0735	EO06, New Scrubber Vent	40 CFR 63 Subpart EEEE – Nation al Emission Standards for Hazardous Air Pollutants (NESHAP); Organic Liquids Distribution (Non-Gasoline)	DOES NOT APPLY. Source does not receive any streams from equipment subject to this Subpart.
EQT0761	EO06(a), EO Truck and Rail Loading	40 CFR 63 Subpart EEEE – Nation al Emission Standards for Hazardous Air Pollutants (NESHAP); Organic Liquids Distribution (Non-Gasoline)	EXEMPT. Operations subject to another NESHAP under 40 CFR Part 63 are excluded from the requirements of this Subpart. [40 CFR 63.2338(c)(1)]
EQT0762	EO06(b), TK 335 Lean Absorbent Vessel	LAC 33:III.2103 – Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds (VOC)	DOES NOT APPLY. Vapor pressure of stored liquid is less than 1.5 psia. [LAC 33:III.2103.A]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0762	EO06(b), TK 335 Lean Absorbent Vessel	40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Material stored has a maximum true vapor pressure of less than 0.51 psia. [40 CFR 60.110(b)]
EQT071	Process Wastewater Streams – Group 2 Streams	LAC 33:III.2153 – Limiting VOC Emissions from Industrial Wastewater	DOES NOT APPLY. Wastewater does not meet the definition of affected VOC wastewater as defined in LAC 33:III.2153.A. The wastewater stream is less than 10,000 parts per million by weight (ppmw) of VOC and the average flow rate is less than 10 liters per minute.
EQT072	Process Wastewater Streams – Non-OHAP Streams	LAC 33:III.2153 – Limiting VOC Emissions from Industrial Wastewater	DOES NOT APPLY. Wastewater does not meet the definition of affected VOC wastewater as defined in LAC 33:III.2153.A. The wastewater stream is less than 10,000 parts per million by weight (ppmw) of VOC.
		LAC 33:III.5109.A – Comprehensive Toxic Air Pollutant (TAP) Emission Control Program – Emission Control and Reduction Requirements and Standards	DOES NOT APPLY. Wastewater streams do not contain a TAP. [LAC 33:III.5109]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049

BASF Corporation
Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQR0072	Process Wastewater Streams – Non-OHAP Streams	40 CFR 63 Subparts F & G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) - HON	DOES NOT APPLY. Wastewater streams do not contain an OHAP.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE-ONLY SPECIFIC CONDITIONS**

**Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant
Agency Interest No. 2049
BASF Corporation
Geismar, Ascension Parish, Louisiana**

1. The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:
 - a. Changes in components involve routine maintenance, or are undertaken to address safety concerns, or involve small piping revisions with no associated emission increases except from the fugitive components themselves;
 - b. The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than piping components;
 - c. Actual emissions following the changes will not exceed the emission limits contained in this permit; and
 - d. The components are promptly incorporated into any applicable leak detection and repair program.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
PART 70 SPECIFIC CONDITIONS**

Ethylene Oxide (EO)/Ethylene Glycol (EG) Plant

Agency Interest No. 2049

BASF Corporation

Geismar, Ascension Parish, Louisiana

1. Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Non-compliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emission programs.
 - a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
 - b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
 - c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on September 30 and March 31, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

Unit or Plant Site	Programs Being Consolidated	Stream Applicability	Overall Most Stringent Program
FUG0004 4-87, EO/EG/Gas Additives Fugitives	Ethylene Oxide 3 (EO3) Plant	40 CFR 63 Subpart H	Streams containing >/= 5% OHAPs
		LAC 33:III.2122	Streams containing >/= 10% VOC
		40 CFR 60 Subpart VV	
	Ethylene Glycol (EG) Plant	40 CFR 63 Subpart H	Streams containing >/= 5% OHAPs
		LAC 33:III.2122	Streams containing >/= 10% VOC

* Equipment in organic hazardous air pollutant (OHAP) service, as defined in 40 CFR 63.161 of Subpart H, shall comply with all applicable requirements in HON, 40 CFR 63 Subpart H. All equipment in other VOC service in these plants shall comply with all applicable requirements under LAC 33:III.2122.

The Gasoline Additives Blending Facility, a non-SOCMI unit, shall comply with the applicable equipment leak requirements in 40 CFR 63 Subpart EEEE (NESHAP – Organic Liquid Distribution (OLD MACT)).

INVENTORIES

AJ ID: 2049 - BASF Corp
Activity Number: PER20080025
Permit Number: 2459-Y4
Air - Title V Regular Permit Renewal

Subject Item Inventory:

EOEQ Plant	ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT 0021	1-65 - FB 4322 Ethylene Glycol Storage Tank	103000 gallons		746000 gallons/yr	8760 hr/yr		
EQT 0023	1-94 - FB 7300 PIBA Storage Tank	216000 gallons		16.05 MM gallons/yr	8760 hr/yr		
EQT 0024	1-97 - Renun Glycol Tank	500 gallons		5000 gallons/yr	8760 hr/yr		
EQT 0027	12-58 - FB 3320 SC84/SC83 Storage Tank	310000 gallons		1.75 MM gallons/yr	8760 hr/yr		
EQT 0028	16-90 - FB 7310 Gasoline Additive Storage Tank	650000 gallons		18 MM gallons/yr	8760 hr/yr		
EQT 0032	2-97 - Renun Glycol Tank	500 gallons		5000 gallons/yr	8760 hr/yr		
EQT 0033	3-58 - FB 3308 Ethylene Glycol Storage Tank	350000 gallons		1.9 MM gallons/yr	8760 hr/yr		
EQT 0034	3-65 - FB 4325 Ethylene Glycol Storage Tank	110000 gallons		840000 gallons/yr	8760 hr/yr		
EQT 0037	3-94 - FB 7328 Gasoline Additive Storage Tank	110152 gallons		5 MM gallons/yr	8760 hr/yr		
EQT 0038	3-86 - TK 910 Puradd SC84 Tank	113844 gallons		1.75 MM gallons/yr	8760 hr/yr		
EQT 0042	4-94 - FB 4324 Gasoline Additive Storage Tank	103000 gallons		5.21 MM gallons/yr	8760 hr/yr		
EQT 0043	4-96 - TK 911 Puradd SC84 Tank	113844 gallons		1.75 MM gallons/yr	8760 hr/yr		
EQT 0044	4-98 - CO2 Removal System Vent		28660 l/hr	28660 l/hr	8760 hr/yr		
EQT 0045	4-98 ALT - Alternate CO2 Removal System Vent		28660 l hr	28660 l hr	8760 hr/yr		
EQT 0047	5-84 - FB 3301 Xylene TransMix Storage Tank	310000 gallons		10.41 MM gallons/yr	8760 hr/yr		
EQT 0048	6-58 - FB 3314 Ethylene Glycol Storage Tank	650000 gallons		8.4 MM gallons/yr	8760 hr/yr		
EQT 0049	6-73 - EO/EG Barometric Cooling Tower		1251 MM gallons/yr	1251 MM gallons/yr	8760 hr/yr		
EOT 0050	6-78 - FB 7326 SC84 Storage Tank	610000 gallons		415000 gallons/yr	8760 hr/yr		
EQT 0051	6-84 - TK 1004 Gasoline Additive Storage Tank	110000 gallons		6.78 MM gallons/yr	8760 hr/yr		
EQT 0052	7-58 - FB 3315 Triethylene Glycol Storage Tank	350000 gallons		1.4 MM gallons/yr	8760 hr/yr		
EQT 0053	7-73 - EO/EG Flare		1.39 MM BTU/hr	1.39 MM BTU/hr	8760 hr/yr		
EQT 0054	7-73(j) - FB 3318 Gasoline Additive Storage Tank	260000 gallons		5.57 MM gallons/yr	8760 hr/yr		
EOT 0055	7-73(k) - FB 3317 Blend Tank	260000 gallons		5.57 MM gallons/yr	8760 hr/yr		
EQT 0056	7-78 - FB 7327 Gasoline Additive Raw Material Tank	240000 gallons		707000 gallons/yr	8760 hr/yr		
EQT 0057	8-58 - FB 3319 Ethylene Glycol Storage Tank	100000 gallons		3.9 MM gallons/yr	8760 hr/yr		
EQT 0058	8-78 - FB 7328 Gasoline Additive Storage Tank	240000 gallons		3.58 MM gallons/yr	8760 hr/yr		
EQT 0060	9-73 - FB 5324 Gasoline Additive Storage Tank	111000 gallons		6.7 MM gallons/yr	8760 hr/yr		
EQT 0081	EOEG02 - CT-800 PEO Cooling Tower		16500 gallons/min	16500 gallons/min	8760 hr/yr		
EQT 0082	EOEG03 - CT-630 EO3 Cooling Tower		20000 gallons/min	20000 gallons/min	8760 hr/yr		
EQT 0070	7-73(b) - DC8201 Glycol Reactor		25200 gallons/yr	25200 gallons/yr	8760 hr/yr		
EQT 0071	PWW-1 - Group 2 Streams - Process Wastewater				8760 hr/yr		
EQT 0072	PWW-2 - Non-OHAP Streams - Process Wastewater				8760 hr/yr		
EOT 0734	EO05 - TK-7343 Unimark Storage Tank	1500 gallons			8760 hr/yr		
EOT 0735	EO06 - New Scrubber Vent				8760 hr/yr		
EOT 0736	736 - Analyzer Vents				8760 hr/yr		
EOT 0737	4-98(a) - R300 Reactor				8760 hr/yr		
EOT 0738	4-98(b) - T-320 Column				8760 hr/yr		
EOT 0740	740 - PEO Tower Casing				8760 hr/yr		
EOT 0741	741 - PEO Tower				8760 hr/yr		

INVENTORIES

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
E0EQ Plant						
EQT 0742	742 - Tank Farm Equipment					8760 hr/yr
EQT 0743	743 - Railcar/Tank Purging					8760 hr/yr
EQT 0744	744 - EO Tank H/C Valves					8760 hr/yr
EQT 0745	745 - PEO Column Overheads (through PZV-38605B end HV-38830)					8760 hr/yr
EQT 0746	746 - PEO Column Casting P-335A/B Seal Pots					8760 hr/yr
EQT 0747	747 - P-7309A/B Seal Pots					8760 hr/yr
EQT 0748	748 - EO Load Rack Eductor Discharge					8760 hr/yr
EQT 0749	749 - Railcar Cleaning Station Vent					8760 hr/yr
EQT 0750	750 - EO Storage Equalization Vent					8760 hr/yr
EQT 0751	751 - Storage Spheres (FB7100, FB-5312, FB3313, FB3312)					8760 hr/yr
EQT 0752	752 - EO Re-Run Bullets (FA-3301, FA-3302)					8760 hr/yr
EQT 0753	753 - EO Storage Sphere Auto-Refrigeration Vent (HV-74001/HV-74002)					8760 hr/yr
EQT 0754	754 - EO Re-Run Bullets Auto-Refrigeration Vent (HV-7121/HV-7122)					8760 hr/yr
EQT 0755	755 - PSV Discharges					8760 hr/yr
EQT 0756	756 - Glycol Bleed Storage Tank Vent FA-3155					8760 hr/yr
EQT 0757	757 - P-450 A/B Seal Pots					8760 hr/yr
EQT 0758	758 - P-455 A/B Seal Pots					8760 hr/yr
EQT 0759	7-73(I) - Gas Additives Truck and Rail Loading (Controlled)					8760 hr/yr
EQT 0760	2-96 - Gas Additives Truck and Rail Loading (Uncontrolled)					8760 hr/yr
EQT 0761	EO06(a) - EO Truck and Rail Loading					8760 hr/yr
EQT 0762	EO06(b) - TK 3325 Lean Absorbent Vessel	50000 gallons				8760 hr/yr
FUG 0004	4-87 - EO/E/Gas Additives Fugitives					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
E0EQ Plant							
EQT 0021	1-85 - FB 4322 Ethylene Glycol Storage Tank					28	70
EQT 0023	1-94 - FB 7300 PIBA Storage Tank					30	70
EQT 0024	1-97 - Renin Glycol Tank					8	70
EQT 0027	12-58 - FB 3320 SC84/SC83 Storage Tank					10	70
EQT 0028	16-90 - FB 7310 Gasoline Additive Storage Tank					50	70
EQT 0032	2-97 - Renin Glycol Tank					8	70
EQT 0033	3-58 - FB 3309 Ethylene Glycol Storage Tank					33	70
EQT 0034	3-65 - FB 4325 Ethylene Glycol Storage Tank					24	70

INVENTORIES

AI ID: 2049 - BASF Corp

Activity Number: PER20080025

Permit Number: 2459-V4

Air - Title V Regular Permit Renewal**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
E0E/G Plant							
EQT 0037	3-84 - FB 7328 Gasoline Additive Storage Tank					30	70
EQT 0038	3-96 - TK 910 Puredit SC84 Tank					32	70
EQT 0042	4-84 - FB 4324 Gasoline Additive Storage Tank					24	70
EQT 0043	4-96 - TK 911 Puredit SC84 Tank					32	70
EQT 0044	4-88 - CO2 Removal System Vent	47.5	6248	1.67		210	192
EQT 0045	4-88 ALT - Alternate CO2 Removal System Vent	58.8	6248	1.5		210	192
EQT 0047	5-84 - FB 3301X Xylene TransMix Storage Tank					22	70
EQT 0048	6-58 - FB 3314 Ethylene Glycol Storage Tank					48	70
EQT 0049	6-73 - EO/E/G Barometric Cooling Tower	28.4	342400	16		40	103
EQT 0050	6-78 - FB 7326 SC84 Storage Tank					30	70
EQT 0051	6-84 - TK 1004 Gasoline Additive Storage Tank					26	70
EQT 0052	7-58 - FB 3315 Triethylene Glycol Storage Tank					33	70
EQT 0053	7-73 - EO/E/G Flare	168	31660	2		200	1500
EQT 0054	7-73(j) - FB 3316 Gasoline Additive Storage Tank					70	
EQT 0055	7-73(k) - FB 3317 Blend Tank					70	
EQT 0056	7-78 - FB 7327 Gasoline Additive Raw Material Tank					24	70
EQT 0057	8-58 - FB 3319 Ethylene Glycol Storage Tank					20	70
EQT 0059	8-78 - FB 7328 Gasoline Additive Storage Tank					24	70
EQT 0060	9-73 - FB 5324 Gasoline Additive Storage Tank					24	70
EQT 0061	EOE/002 - CT-400 PEO Cooling Tower	18.25	711000	28		40	86
EQT 0062	EOE/003 - CT-430 EO3 Cooling Tower	27.4	999999.99	28		42	95
FUG 0004	4-87 - EO/E/G/Gas Additives Fugitives					70	

Relationships:

ID	Description	Relationship	ID	Description
EQT 0053	7-73 - EO/E/G Flare	Controls emissions from	EQT 0070	7-73(b) - DC8201 Glycol Reactor
EQT 0053	7-73 - EO/E/G Flare	Controls emissions from	EQT 0055	7-73(k) - FB 3317 Blend Tank
EQT 0053	7-73 - EO/E/G Flare	Controls emissions from	EQT 0054	7-73(j) - FB 3316 Gasoline Additive Storage Tank
EQT 0053	7-73 - EO/E/G Flare	Controls emissions from	EQT 0759	7-73(l) - Gas Additives Truck and Rail Loading (Controlled)
EQT 0053	7-73 - EO/E/G Flare	Controls emissions from	EQT 0736	736 - Analyzer Vents
EQT 0735	E008 - New Scrubber Vent	Controls emissions from	EQT 0745	745 - PEO Column Overheads (through PZV-38505B and HV-38630)
EQT 0735	E008 - New Scrubber Vent	Controls emissions from	EQT 0746	746 - PEO Column Casing P-335A/B Seal Pots
EQT 0735	E008 - New Scrubber Vent	Controls emissions from	EQT 0747	747 - P-7309A/B Seal Pots

INVENTORIES

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0744	744 - EO Tank HiC Valves
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0743	743 - Railcar/Tank Purging
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0742	742 - Tank Farm Equipment
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0741	741 - PEO Tower
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0740	740 - PEO Tower Casing
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0748	748 - EO Load Rack Eductor Discharge
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0762	EO06(b) - TK 335 Lean Absorbent Vessel
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0749	749 - Railcar Cleaning Station Vent
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0750	750 - EO Storage Equalization Vent
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0751	751 - Storage Spheres (FB7100, FB-5312, FB3313, FA-3302)
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0752	752 - EO Re-Run Bullets (FA-3301, FA-3302)
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0753	753 - EO Storage Sphere Auto-Refrigeration Vent (HV-74001/HV-74002)
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0754	754 - EO Re-Run Bullets Auto-Refrigeration Vent (HV-7121/HV-7122)
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0755	755 - PSV Discharges
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0756	756 - Glycol Bleed Storage Tank Vent FA-3155
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0757	757 - P-450 A/B Seal Pots
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0758	758 - P-455 A/B Seal Pots
EQT 0735	EO06 - New Scrubber Vent	Controls emissions from	EQT 0761	EO06(a) - EO Truck and Rail Loading
EQT 0737	4-98(a) - R300 Reactor	Vents to, or EPN 4-98ALT	EQT 0044	4-98 - CO2 Removal System Vent
EQT 0738	4-98(b) - T-320 Column	Vents to, or EPN 4-98ALT	EQT 0044	4-98 - CO2 Removal System Vent

Subject Item Groups:

ID	Group Type	Group Description
UNF 0010	Unit or Facility Wide	Geismar Site - EO/EG Plant

Group Membership:

ID	Air Contaminant Source	Multipier	Units Of Measure
0630	0630 Organic Oxides, Alcohols, Glycols (Rated Capacity)	634	MM lbs/yr

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multipier	Units Of Measure
0630	0630 Organic Oxides, Alcohols, Glycols (Rated Capacity)	634	MM lbs/yr

SIC Codes:

2869	Industrial organic chemicals, nec	AI 2049
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INVENTORIES

AI ID: 2049 - BASF Corp
Activity Number: PER200080025
Permit Number: 2459-Y4
Air - Title V Regular Permit Renewal

SIC Codes:
2869 Industrial organic chemicals, nec

UNF 010

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2049 - BASF Corp

Activity Number: PER20080025

Permit Number: 2459-V4

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
E0/EQG Plant															
EQT 0021 1-45										<0.001	<0.001	<0.01			
EQT 0023 1-44										0.18	2.41	0.77			
EQT 0024 1-47										<0.001	<0.001	<0.01			
EQT 0027 12-58										<0.001	0.22	<0.01			
EQT 0028 18-90										0.26		1.13			
EQT 0032 2-47										<0.001	<0.001	<0.01			
EQT 0033 3-56										0.001	0.001	<0.01			
EQT 0034 3-65										<0.001	<0.001	<0.01			
EQT 0037 3-64										0.12		0.53			
EQT 0038 3-86										0.002	0.002	0.01			
EQT 0042 4-44										0.12		0.53			
EQT 0043 4-86										0.002	0.002	0.01			
EQT 0044 4-86										4.04	6.06	17.70			
EQT 0045 4-86 ALT												6.06			
EQT 0047 5-84										0.014		0.06			
EQT 0048 6-86										0.003	0.003	0.01			
EQT 0049 6-75										0.71	0.78	3.11			
EQT 0050 6-78										0.01	0.01	0.04			
EQT 0051 6-84										0.14		0.62			
EQT 0052 7-58										<0.001	<0.001	<0.01			
EQT 0053 7-73	0.11	0.27	0.50	0.09	14.30	0.41	0.01	8.30	0.05	<0.01	<0.01	0.13	2.63	0.58	
EQT 0056 7-78										0.01	0.22	0.02			
EQT 0057 8-58										0.001	0.001	<0.01			

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2049 - BASF Corp

Activity Number: PER20080025

Permit Number: 2459-V4

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
EO/EG Plant															
EQT 0059 8-78													0.04	4.91	0.17
EQT 0060 9-73													0.13		0.58
EQT 0061 EO/EGz							0.34	0.42	1.47				0.87	1.08	3.82
EQT 0062 EO/EGa							0.04	0.05	0.18				1.04	1.29	4.53
EQT 0734 EC05													<0.001	<0.001	<0.01
EQT 0735 EC06													0.01	0.01	0.02
EQT 0760 2-96													0.01	0.43	0.08
FUG 0004 4-87													0.66	0.68	2.87

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emission rates Notes:

- EQT 0735 VOC Avg lb/hr Emissions may be routed to the EO/EG Flare (EPN 7-73) if site operations necessitate. Which Months: All Year
- EQT 0735 VOC Max lb/hr Emissions may be routed to the EO/EG Flare (EPN 7-73) if site operations necessitate. Which Months: All Year
- EQT 0735 VOC Tons/Year Emissions may be routed to the EO/EG Flare (EPN 7-73) if site operations necessitate. Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AJ ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0021 1-85	Ethylene glycol	<0.001	<0.001	0.001
EQT 0023 1-94	Ethyl benzene	0.04	0.55	0.18
	Naphthalene	<0.001	0.01	0.002
	Xylene (mixed isomers)	0.13	1.84	0.59
EQT 0024 1-97	Ethylene glycol	<0.001	<0.001	<0.001
EQT 0028 16-90	Ethyl benzene	0.06		0.26
	Naphthalene	0.001		<0.01
	Xylene (mixed isomers)	0.20		0.87
EQT 0032 2-97	Ethylene glycol	<0.001	<0.001	<0.001
EQT 0033 3-58	Ethylene glycol	0.001	0.001	0.004
EQT 0034 3-85	Ethylene glycol	<0.001	<0.001	0.001
EQT 0037 3-94	Ethyl benzene	0.03		0.12
	Toluene	0.004		0.02
	Xylene (mixed isomers)	0.10		0.45
EQT 0038 3-96	Ethylene glycol	0.002	0.002	0.007
EQT 0042 4-94	Ethyl benzene	0.03		0.12
	Toluene	0.004		0.02
	Xylene (mixed isomers)	0.10		0.45
EQT 0043 4-96	Ethylene glycol	0.002	0.002	0.007
EQT 0044 4-98	Ethylene	3.93	5.89	17.20
	Ethylene oxide	0.11	0.17	0.50
EQT 0045 4-98 ALT	Ethylene		5.89	
	Ethylene oxide		0.17	
EQT 0047 5-94	Ethyl benzene	<0.001		<0.01
	Xylene (mixed isomers)	0.014		0.06
EQT 0048 6-56	Ethylene glycol	0.003	0.003	0.01
EQT 0049 6-73	Ethylene glycol	0.71	0.78	3.11
EQT 0051 6-94	Ethyl benzene	0.03		0.13
	Toluene	0.004		0.02
	Xylene (mixed isomers)	0.12		0.53
EQT 0053 7-73	Ethyl benzene	0.001	0.26	0.003
	Ethylene	0.05	1.80	0.24
	Ethylene oxide	0.004	0.20	0.014

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp

Activity Number: PER20080025

Permit Number: 2459-V4

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0053 7-73	Formaldehyde	<0.001	<0.001	<0.001
	Naphthalene	<0.001	0.03	<0.001
	Xylene (mixed isomers)	0.005	0.23	0.02
	n-Hexane	0.002	0.002	0.01
EQT 0057 8-56	Ethylene glycol	0.001	0.001	0.004
EQT 0059 8-78	Ethyl benzene	0.004	0.65	0.02
	Naphthalene	<0.001	0.003	<0.001
	Xylene (mixed isomers)	0.03	4.25	0.15
EQT 0060 9-73	Ethyl benzene	0.03		0.13
	Toluene	0.004		0.02
	Xylene (mixed isomers)	0.11		0.50
EQT 0061 EOEG02	Chlorine	0.008	0.017	0.04
	Chloroform	0.046	0.046	0.20
EQT 0062 EOEG03	Chlorine	0.03	0.03	0.07
	Chloroform	0.034	0.034	0.15
EQT 0735 EO08	Ethylene oxide	0.01	0.01	0.02
EQT 0760 2-96	Ethylene glycol	0.01	0.20	0.05
FUG 0004 4-87	Chloroethane	0.11	0.11	0.50
	Ethylene	0.30	0.30	1.30
	Ethylene glycol	0.18	0.18	0.79
	Ethylene oxide	0.031	0.031	0.14
	Xylene (mixed isomers)	0.033	0.033	0.14
UNF 0010 Gasmer Site	Chlorine			0.11
	Chloroethane			0.50
	Chloroform			0.35
	Ethyl benzene			0.97
	Ethylene			18.74
	Ethylene glycol			3.98
	Ethylene oxide			0.67
	Formaldehyde			<0.001
	Naphthalene			0.01
	Toluene			0.08
	Xylene (mixed isomers)			3.76

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0010 Geismar Site	n-Hexane			0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

Emission Rates Notes:

EQT 0735	Ethylene oxide	Avg lb/hr	Emissions may be routed to the EO/EG Flare (EPN 7-73) if site operations necessitate. Which Months: All Year
EQT 0735	Ethylene oxide	Max lb/hr	Emissions may be routed to the EO/EG Flare (EPN 7-73) if site operations necessitate. Which Months: All Year
EQT 0735	Ethylene oxide	Tons/Year	Emissions may be routed to the EO/EG Flare (EPN 7-73) if site operations necessitate. Which Months: All Year

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-Y4
 Air - Title V Regular Permit Renewal

EQT 0021 1-65 - FB 4322 Ethylene Glycol Storage Tank

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Emits a Class III TAP only. MACT is not required.

EQT 0023 1-94 - FB 7300 PIBA Storage Tank

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 3 [LAC 33:III.5109.A.] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 No additional control is determined as MACT.

EQT 0024 1-97 - Rerun Glycol Tank

4 [LAC 33:III.5109.A.] Emits a Class III TAP only. MACT is not required.

EQT 0028 16-90 - FB 7310 Gasoline Additive Storage Tank

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 5 [LAC 33:III.5109.A.] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 No additional control is determined as MACT.

EQT 0032 2-97 - Rerun Glycol Tank

6 [LAC 33:III.5109.A.] Emits a Class III TAP only. MACT is not required.

EQT 0033 3-58 - FB 3309 Ethylene Glycol Storage Tank

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Emits a Class III TAP only. MACT is not required.

EQT 0034 3-65 - FB 4325 Ethylene Glycol Storage Tank

9 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 Emits a Class III TAP only. MACT is not required.

EQT 0037 3-94 - FB 7329 Gasoline Additive Storage Tank

SPECIFIC REQUIREMENTS

AJ ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

EQT 0037 3-94 - FB 7329 Gasoline Additive Storage Tank

11 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 No additional control is determined as MACT.

EQT 0038 3-96 - TK 910 Puradd SC84 Tank

12 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 No additional control is determined as MACT.

EQT 0042 4-94 - FB 4324 Gasoline Additive Storage Tank

13 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 No additional control is determined as MACT.

EQT 0043 4-96 - TK 911 Puradd SC84 Tank

14 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 No additional control is determined as MACT.

EQT 0047 5-94 - FB 3301X Xylene TransMix Storage Tank

- 15 [40 CFR 63.1062(a)(1)] Operate and maintain an internal floating roof. Subpart WW. [40 CFR 63.1062(a)(1)]
- 16 [40 CFR 63.1063(a)(2)(ii)] Equip the internal floating roof with a liquid-mounted seal, a mechanical shoe seal, or two seals mounted one above the other (lower seal may be vapor-mounted). Subpart WW. [40 CFR 63.1063(a)(1)(i)]
- 17 [40 CFR 63.1063(a)(2)(ii)] Ensure that each opening except those for automatic bleeder vents (vacuum breaker vents) and rim space vents has its lower edge below the surface of the stored liquid. Subpart WW. [40 CFR 63.1063(a)(2)(i)]
- 18 [40 CFR 63.1063(a)(2)(ii)] Equip each opening, except those for automatic bleeder vents (vacuum breaker vents), rim space vents, leg sleeves, and deck drains, with a deck cover, except as specified in 40 CFR 63.1063(a)(2)(iv) and (a)(2)(v). Equip the deck cover with a gasket between the cover and the deck. Subpart WW. [40 CFR 63.1063(a)(2)(ii)]
- 19 [40 CFR 63.1063(a)(2)(iii)] Equip each automatic bleeder vent (vacuum breaker vent) and rim space vent with a gasketed lid, pallet, flapper, or other closure device. Subpart WW. [40 CFR 63.1063(a)(2)(iii)]
- 20 [40 CFR 63.1063(a)(2)(vi)] Ensure that each cover on access hatches and gauge float wells is designed to be bolted or fastened when closed. Subpart WW. [40 CFR 63.1063(a)(2)(vi)]
- 21 [40 CFR 63.1063(a)(2)(vii)] Equip each opening for an unslotted guidepole with a pole wiper, and equip each unslotted guidepole with a gasketed cap on the top of the guidepole. Subpart WW. [40 CFR 63.1063(a)(2)(vii)]
- 22 [40 CFR 63.1063(a)(2)(viii)] Equip each opening for a slotted guidepole with a pole float, with the wiper or seal of the pole float at or above the height of the pole wiper, or a pole wiper and a pole sleeve. Subpart WW. [40 CFR 63.1063(a)(2)(viii)]
- 23 [40 CFR 63.1063(b)(1)] Ensure that the floating roof floats on the stored liquid surface at all times, except when the floating roof is supported by its leg supports or other support devices (e.g., hangers from the fixed roof). Subpart WW. [40 CFR 63.1063(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

EQT 0047 5-94 - FB 3301X Xylene TransMix Storage Tank

- 24 [40 CFR 63.1063(b)(2)] Ensure that when the storage vessel is storing liquid, but the liquid depth is insufficient to float the floating roof, the process of filling to the point of refloating the floating roof is continuous and is performed as soon as practical. Subpart WW. [40 CFR 63.1063(b)(2)]
- 25 [40 CFR 63.1063(b)(3)] Ensure that each cover over an opening in the floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, is closed at all times, except when the cover must be open for access. Subpart WW. [40 CFR 63.1063(b)(3)]
- 26 [40 CFR 63.1063(b)(4)] Ensure that each automatic bleeder vent (vacuum breaker vent) and rimspace vent is closed at all times, except when required to be open to relieve excess pressure or vacuum, in accordance with the manufacturer's design. Subpart WW. [40 CFR 63.1063(b)(4)]
- 27 [40 CFR 63.1063(b)(5)] Ensure that each unslotted guidepole cap is closed at all times except when gauging the liquid level or taking liquid samples. Subpart WW. [40 CFR 63.1063(b)(5)]
- 28 [40 CFR 63.1063(c)(1)(i)(A)] Tank roof and seals monitored by visual inspection/determination annually, as specified in 40 CFR 63.1063(d)(2). Subpart WW. [40 CFR 63.1063(c)(1)(i)(A)]
- 29 [40 CFR 63.1063(c)(1)(i)(B)] Which Months: All Year Statistical Basis: None specified Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof each time the storage vessel is completely emptied and degassed, or every 10 years, whichever occurs first, as specified in 40 CFR 63.1063(d)(1). Subpart WW. [40 CFR 63.1063(c)(1)(i)(B)]
- 30 [40 CFR 63.1063(c)(1)] Which Months: All Year Statistical Basis: None specified Tank roof and seals monitored by visual inspection/determination once before initial filling, as specified in 40 CFR 63.1063(d)(1). Subpart WW. [40 CFR 63.1063(c)(1)]
- 31 [40 CFR 63.1063(e)(1)] Which Months: All Year Statistical Basis: None specified Complete repairs on conditions causing inspection failures under 40 CFR 63.1063(d) before the refilling of the storage vessel with liquid, if the inspection is performed while the storage vessel is not storing liquid. [40 CFR 63.1063(e)(1)]
- 32 [40 CFR 63.1063(e)(2)] Complete repairs on conditions causing inspection failures under 40 CFR 63.1063(d) or remove the vessel from service within 45 days, if the inspection is performed while the storage vessel is storing liquid. If a repair cannot be completed and the vessel cannot be emptied within 45 days, up to 2 extensions of up to 30 additional days each may be used. Subpart WW. [40 CFR 63.1063(e)(2)]
- 33 [40 CFR 63.1063] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 63.1063(a) through (d), as applicable. Subpart WW.
- 34 [40 CFR 63.1066(a)] Include the information specified in 40 CFR 63.1066(a)(1) and (a)(2) as part of the Notification of Initial Startup. Subpart WW. [40 CFR 63.1066(a)]
- 35 [40 CFR 63.1066(b)] Include the information specified in 40 CFR 63.1066(b)(1) through (b)(4) as part of the Periodic Report. Subpart WW. [40 CFR 63.1066(b)]
- 36 [40 CFR 63.2346(a)(3)] Comply with 40 CFR 63 Subpart WW. Subpart EEEE. [40 CFR 63.2346(a)(3)]
- 37 [40 CFR 63.2370(a)] Equipment/operational data monitored by visual inspection/determination once before refilling. Inspect the internal floating roof. Subpart EEEE. [40 CFR 63.2370(a)]
- 38 [40 CFR 63.2370(b)] Which Months: All Year Statistical Basis: None specified Equipment/operational data monitored by visual inspection/determination within 90 days after refilling. Inspect the primary and secondary rim seals of the external floating roof. Subpart EEEE. [40 CFR 63.2370(a)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
Activity Number: PER20080025
 Permit Number: 2459-V4
Air - Title V Regular Permit Renewal

EQT 0047 5-94 - FB 3301X Xylene TransMix Storage Tank

39 [40 CFR 63.2378(a)]
 Equipment/operational data monitored by the regulation's specified method(s) quarterly during the loading of a transport vehicle or the filling of a container. Monitor each potential source of vapor leakage in the system using the methods and procedures described in the rule requirements selected for the work practice standard for equipment leak components as specified in 40 CFR 63 Subpart EEEE Table 4 Item 4. If a reading of 500 ppm is measured, a leak is detected. If a leak is detected, repair according to the repair requirements specified in the selected equipment leak standards. Subpart EEEE. [40 CFR 63.2378(a)]

Which Months: All Year Statistical Basis: None specified
 Tank roof and seals monitored by visual inspection/determination upon each occurrence of the tank being completely emptied and degassed or every 10 years, whichever occurs first. Inspect the floating roof deck, deck fittings, and rim seals. Subpart EEEE. [40 CFR 63.2378(a)]

Which Months: All Year Statistical Basis: None specified
 Tank roof and seals monitored by visual inspection/determination annually. Inspect the floating roof deck, deck fittings, and rim seals of each internal floating roof. Subpart EEEE. [40 CFR 63.2378(a)]

Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2390(b) through (e), as applicable. Subpart EEEE.
 Keep records in a form suitable and readily available for expedited inspection and review according to 40 CFR 63.10(b), including records stored in electronic form at a separate location. Keep files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, corrective action, report, or record. Keep each record on site for at least 2 years after the date of each occurrence, measurement, corrective action, report, or record, according to 40 CFR 63.10(b). The remaining 3 years may be kept off site. Subpart EEEE.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with NESHAP, 40 CFR 63 Subpart EEEE - Organic Liquids Distribution, Storage Vessel.
EQT 0048 6-58 - FB 3314 Ethylene Glycol Storage Tank
 45 [40 CFR 63.123(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
 46 [LAC 33:III.5109.A.1]
 Emits a Class III TAP only. MACT is not required.

EQT 0049 6-73 - EO/EG Barometric Cooling Tower

47 [LAC 33:III.5109.A]
 Emits a Class III TAP. MACT is not required.

EQT 0051 6-94 - TK 1004 Gasoline Additive Storage Tank

48 [LAC 33:III.5109.A.1]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. No additional control is determined as MACT.

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

EQT 0053 7-73 - EO/EG Flare

- 49 [40 CFR 63.11(b)(1)] Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
- 50 [40 CFR 63.11(b)(3)] Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
- 51 [40 CFR 63.11(b)(4)] Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
- 52 [40 CFR 63.11(b)(5)] Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
- 53 [40 CFR 63.11(b)(5)] Which Months: All Year Statistical Basis: None specified
- 54 [40 CFR 63.11(b)(6)(ii)] Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
- 55 [40 CFR 63.11(b)(8)] Heat content \geq 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(8)]
- 56 [40 CFR 63.113(a)(1)(i)] Which Months: All Year Statistical Basis: None specified
- 57 [40 CFR 63.114(a)(2)] Exit Velocity < 168 ft/sec (V_{max}). Determine V_{max} using the equation specified in 40 CFR 63.11(b)(8). Subpart A. [40 CFR 63.11(b)(8)]
- 58 [40 CFR 63.114(d)(1)] Which Months: All Year Statistical Basis: None specified
- 59 [40 CFR 63.114(d)(2)] Comply with the provisions of 40 CFR 63.11(b). Subpart G. [40 CFR 63.113(a)(1)(i)]
- 60 [40 CFR 63.114(d)(2)] Presence of a flame monitored by the regulation's specified method(s) continuously. Subpart G. [40 CFR 63.114(a)(2)]
- 61 [40 CFR 63.116(a)(1)] Which Months: All Year Statistical Basis: None specified
- 62 [40 CFR 63.116(a)(2)] Bypass lines: Flow monitored by flow indicator once every 15 minutes. Equip the flow indicator with a recorder that takes a reading at least once every 15 minutes and install at the entrance to any bypass line that could divert the gas stream to the atmosphere. Subpart G. [40 CFR 63.114(d)(1)]
- 63 [40 CFR 63.116(a)(3)] Which Months: All Year Statistical Basis: None specified
- 64 [40 CFR 63.117(a)] Bypass lines: Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart G. [40 CFR 63.114(d)(2)]
- 65 [40 CFR 63.118(a)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 66 [40 CFR 63.118(a)] Which Months: All Year Statistical Basis: None specified
- 67 [40 CFR 63.118(a)] Conduct a visible emission test using the techniques specified in 40 CFR 63.11(b)(4). Subpart G. [40 CFR 63.116(a)(1)]
- 68 [40 CFR 63.118(a)(2)] Determine the net heating value of the gas being combusted using the techniques specified in 40 CFR 63.11(b)(6). Subpart G. [40 CFR 63.116(a)(2)]
- 69 [40 CFR 63.118(a)(3)] Determine the exit velocity using the techniques specified in either 40 CFR 63.11(b)(7)(i) or 63.11(b)(8), as appropriate. Subpart G. [40 CFR 63.116(a)(3)]
- 70 [40 CFR 63.118(a)(4)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 71 [40 CFR 63.118(a)(5)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]

SPECIFIC REQUIREMENTS

All ID: 2049 - BASF Corp
Activity Number: PER20080025
Permit Number: 2459-V4
Air - Title V Regular Permit Renewal

EQT 0053 7-73 - EO/EG Flare

- 66 [40 CFR 63.119(e)(1)] Inlet emissions: Organic HAP $\geq 95\%$ reduction, except as provided in 40 CFR 63.119(e)(2). If a flare is used, it shall meet the specifications described in the general control device requirements of 40 CFR 63.11(b). Subpart G. [40 CFR 63.119(e)(1)]
- 67 [40 CFR 63.119(c)(3)] Which Months: All Year Statistical Basis: None specified Do not exceed 240 hours per year of periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1) or (e)(2). Subpart G. [40 CFR 63.119(e)(3)]
- 68 [40 CFR 63.120(e)(1)] Perform the compliance determination specified in 40 CFR 63.11(b). Subpart G. [40 CFR 63.120(e)(1)]
- 69 [40 CFR 63.120(e)(2)] Submit the information specified in 40 CFR 63.120(e)(2)(i) through (e)(2)(iii) as part of the Notification of Compliance Status required by 40 CFR 63.152(b). Subpart G. [40 CFR 63.120(e)(2)]
- 70 [40 CFR 63.120(e)(4)] Continue to meet the general control device requirements specified in 40 CFR 63.11(b). Subpart G. [40 CFR 63.120(e)(4)]
- 71 [40 CFR 63.148(b)(1)(i)] Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
- 72 [40 CFR 63.148(b)(1)(ii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
- 73 [40 CFR 63.148(b)(2)(i)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(i)]
- 74 [40 CFR 63.148(b)(2)(ii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(ii)]
- 75 [40 CFR 63.148(b)(2)(iii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(2)(iii)]
- 76 [40 CFR 63.148(b)(3)] Which Months: All Year Statistical Basis: None specified Fixed roof, cover, or enclosure: Presence of a leak monitored by visual, audible, and/or olfactory once initially and once every six months as specified in 40 CFR 63.133 through 63.137. Subpart G. [40 CFR 63.148(b)(3)]
- 77 [40 CFR 63.148(d)] Which Months: All Year Statistical Basis: None specified Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- 78 [40 CFR 63.148(f)(1)] Vapor collection system or closed vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes. Install the flow indicator at the entrance to any bypass line. Subpart G. [40 CFR 63.148(f)(1)]
- 79 [40 CFR 63.148(f)(2)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.148(f)(2)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
Activity Number: PER20080025
 Permit Number: 2459-V4
Air - Title V Regular Permit Renewal

EQT 0053 7-73 - EO/EG Flare

- 80 [40 CFR 63.148(f)(2)] Vapor collection system or closed vent system (bypass lines): Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. Subpart G. [40 CFR 63.148(f)(2)]
- 81 [40 CFR 63.148(i)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.148(i)(1) through (i)(6). Subpart G. [40 CFR 63.148(i)]
- 82 [40 CFR 63.148(j)] Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]
- 83 [40 CFR 63.6(h)] Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 22 - Visual determination of fugitive emissions from material sources and smoke emissions from flares and Methods 2, 2A, 2C, or 2D as appropriate. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [40 CFR 63.6(h), 40 CFR 63.11(b)(4)]
- 84 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 85 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
 Which Months: All Year Statistical Basis: None specified
- 86 [LAC 33:III.1107] Submit report: Due in writing to the Office of Environmental Compliance, Surveillance Division, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized.
- 87 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
- 88 [LAC 33:III.501.C.6] During maintenance activities on the EO/EG Flare (EPN 7-73) in which the flare is out of service, the existing vent gas scrubber (EPN 2-08) or the replacement scrubber (EPN EO06) will control emissions from EO storage tanks during the duration of the flare outage.
- 89 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with all applicable requirements of 40 CFR 63.11(b) is determined as MACT.

EQT 0054 7-73(j) - FB 3316 Gasoline Additive Storage Tank

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source is controlled by the EO/EG Flare (Source ID No. 7-73). Determined as MACT.

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

EQT 0055 7-73(k) - FB 3317 Blend Tank

91 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

Source is controlled by the EO/EG Flare (Source ID No. 7-73). Determined as MACT.

EQT 0057 8-58 - FB 3319 Ethylene Glycol Storage Tank

92 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

93 [LAC 33:III.5109.A.1] Emits a Class III TAP only. MACT is not required.

EQT 0059 8-78 - FB 7328 Gasoline Additive Storage Tank

94 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

No additional control is determined as MACT.

EQT 0060 9-73 - FB 5324 Gasoline Additive Storage Tank

95 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

No additional control is determined as MACT.

EQT 0061 EOEG02 - CT-600 PEO Cooling Tower

96 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

97 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

98 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

99 [40 CFR 63.104(b)] Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more speciated HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Subpart F. [40 CFR 63.104(b)]

Which Months: All Year Statistical Basis: None specified

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy continuously. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

EQT 0061 EOEG02 - CT-600 PEO Cooling Tower
 102 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart F has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

EQT 0062 EOEG03 - CT-630 EO3 Cooling Tower

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
 Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more speciated HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Subpart F. [40 CFR 63.104(f)]

Which Months: All Year Statistical Basis: None specified

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy continuously. Retain the records identified in 40 CFR 63.104(f)(1) through (iv), as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

Compliance with NESHAP 40 CFR 63 Subpart F has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

EQT 0071 PWW-1 - Group 2 Streams - Process Wastewater

For wastewater streams that are Group 2 for Table 9 compounds at existing sources, the permittee shall comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). Subpart G. [40 CFR 63.132(a)(3)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be compliance with the Group 2 wastewater provisions of 40 CFR 63 Subpart G. The wastewater is routed to the Wastewater Treatment Plant and a Biological Treatment Unit permitted in the Utilities Plant Part 70 Operating Permit.

EQT 0735 EO006 - New Scrubber Vent

Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
 Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

EQT 0735 EO006 - New Scrubber Vent

- 114 [40 CFR 63.126(a)] Equip with a vapor collection system and control device. Subpart G. [40 CFR 63.126(a)]
 Organic HAP >= 98 % reduction by weight or exit concentration <= 20 ppmv, whichever is less stringent, using a control device. Subpart G. [40 CFR 63.126(b)(1)]
- 115 [40 CFR 63.126(b)(1)] Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.130(e) and (f). Subpart G.
- 116 [40 CFR 63.130] During maintenance activities on the vent gas scrubber (EPN 2-08 or EPN EO006), in which the scrubber is out of service, the EO/EG Flare (EPN 7-73) will control emissions from EO storage tanks during the scrubber outage.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be compliance with the control requirements of 40 CFR 63 Subpart G (HON).
- 117 [LAC 33:III.501.C.6]
- 118 [LAC 33:III.5109.A.1]

EQT 0737 4-98(a) - R300 Reactor

- 119 [40 CFR 60.702(c)] TRE index value > 1 index value without use of VOC emission control device. Subpart RRR. [40 CFR 60.702(c)]
 Which Months: All Year Statistical Basis: None specified
 For compliance with 40 CFR 60.702(c), the owner or operator of an affected facility shall calculate the TRE index value of the vent stream using the equation for incineration in 40 CFR 60.704(e)(1) for halogenated vent streams. Subpart RRR. [40 CFR 60.704(e)]
- 120 [40 CFR 60.704(e)] For compliance with 40 CFR 60.702(c), the owner or operator of an affected facility shall recalculate the TRE index value whenever process changes are made, as specified in 40 CFR 60.704(f). Subpart RRR. [40 CFR 60.704(f)]
- 121 [40 CFR 60.704(f)] For compliance with 40 CFR 60.702(c), the owner or operator of an affected facility shall keep up-to-date, readily accessible records of (1) Any changes in production capacity, feedstock type, or catalyst type, or any replacement, removal or addition of recovery equipment or reactors; (2) Any recalculations of the TRE index value performed pursuant to 40 CFR 60.704(f); and (3) The results of any performance test performed pursuant to the methods and procedures required by 40 CFR 60.704(d). Subpart RRR. [40 CFR 60.705(g)]
- 122 [40 CFR 60.705(g)] Submit reports: Due semiannually. Submit the initial semannual report to the DEQ within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.705(f)(1) and (f)(6). Subpart RRR. [40 CFR 60.705(f)]
- 123 [40 CFR 60.705(f)] For compliance with 40 CFR 60.702(c), the owner or operator of an affected facility shall maintain a record the initial test for determining the TRE index and the results of the initial TRE index calculation. Subpart RRR. [40 CFR 60.705(t)]
- 124 [40 CFR 60.705(t)] Which Months: All Year Statistical Basis: None specified
 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- 125 [40 CFR 63.113(e)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
- 126 [40 CFR 63.117(b)]
- 127 [40 CFR 63.117(b)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-Y4
 Air - Title V Regular Permit Renewal

EQT 0737 4-98(a) - R300 Reactor

128 [40 CFR 63.118(c)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculation of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G.

129 [40 CFR 63.118(g)]

[40 CFR 63.118(c)]
 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent to become a Group 1 process vent. Include the information specified in 40 CFR 63.118(g)(1) through (g)(3). Subpart G. [40 CFR 63.118(g)]

130 [40 CFR 63.118(h)]

Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(b)(1) through (b)(3). Subpart G. [40 CFR 63.118(h)]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart G (HON) for Group 2 process vents is determined as MACT.

EQT 0738 4-98(b) - T-320 Column

132 [40 CFR 60.662(c)]

TRE index value > 1 index value without use of VOC emission control device. Subpart NNN. [40 CFR 60.662(c)]
 Which Months: All Year Statistical Basis: None specified

133 [40 CFR 60.664(f)]

For compliance with 40 CFR 60.662(c), the owner or operator of an affected facility shall calculate the TRE index value of the vent stream using the equation for incineration in 40 CFR 60.664(e)(1) for halogenated vent streams. Subpart NNN. [40 CFR 60.664(f)]
 For compliance with 40 CFR 60.662(c), the owner or operator of an affected facility shall keep up-to-date, readily accessible records of (1) Any changes in production capacity, feedstock type, or catalyst type, or any replacement, removal or addition of recovery equipment or a distillation unit; (2) Any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f); and (3) The results of any performance test performed pursuant to the methods and procedures required by 40 CFR 60.664(d). Subpart NNN. [40 CFR 60.665(h)]

134 [40 CFR 60.665(h)]

Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(f)(1) through (f)(7). Subpart NNN. [40 CFR 60.665(f)]
 TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]

135 [40 CFR 60.665(l)]

Which Months: All Year Statistical Basis: None specified
 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]

136 [40 CFR 63.113(e)]

Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculation of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G.

137 [40 CFR 63.115(e)]

[40 CFR 63.118(c)]
 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent to become a Group 1 process vent. Include the information specified in 40 CFR 63.118(g)(1) through (g)(3). Subpart G. [40 CFR 63.118(g)]

138 [40 CFR 63.117(b)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

EQT 0738 4-98(b) - T-320 Column

- 141 [40 CFR 63.118(h)]
 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart G (HON) for Group 2 process vents is determined as MACT.

EQT 0759 7-73(l) - Gas Additives Truck and Rail Loading (Controlled)

- 143 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source is controlled by the EO/EG Flare (Source ID No. 7-73). Determined as MACT.

EQT 0760 2-96 - Gas Additives Truck and Rail Loading (Uncontrolled)

- 144 [LAC 33:III.5109.A.1] Emits a Class III TAP only. MACT is not required.

EQT 0761 EO06(a) - EO Truck and Rail Loading

- 145 [40 CFR 63.126(a)]
 Equip with a vapor collection system and control device. Subpart G. [40 CFR 63.126(a)]
 Organic HAP >= 98 % reduction by weight or exit concentration <= 20 ppmv, whichever is less stringent, using a control device. Subpart G. [40 CFR 63.126(b)(1)]
 Which Months: All Year Statistical Basis: None specified
 Load organic HAPs into only tank trucks and railcars which have a current certification in accordance with the U.S. Department of Transportation pressure test requirements of 49 CFR part 180 for tank trucks and 49 CFR 173.31 for railcars; or have been demonstrated to be vapor-tight within the preceding 12 months, as determined by the procedures in 40 CFR 63.128(f). Subpart G. [40 CFR 63.126(c)]
 Load organic HAPs to only tank trucks or railcars equipped with vapor collection equipment that is compatible with the transfer rack's vapor collection system. Subpart G. [40 CFR 63.126(f)]
 Load organic HAPs to only tank trucks or railcars whose collection systems are connected to the transfer rack's vapor collection systems. Subpart G. [40 CFR 63.126(g)]
 Ensure that no pressure-relief device in the transfer rack's vapor collection system or in the organic HAPs loading equipment of each tank truck or railcar shall begin to open during loading. Subpart G. [40 CFR 63.126(h)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.130(e) and (f). Subpart G.
 Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected, or equip to permit residual VOC in the loading line to discharge into a collection system or disposal or recycling system.
 Equip with a vapor collection system consisting of, at a minimum, a vapor return line which returns all vapors displaced during loading to the VOC dispensing vessel or to a disposal system.

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

EQT 0761 EO06(a) - EO Truck and Rail Loading

- 154 [LAC 33:III.2107.B] VOC, Total >= 90 % DRE, using a vapor disposal system.
Which Months: All Year Statistical Basis: None specified
- 155 [LAC 33:III.2107.C] VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks.
Which Months: All Year Statistical Basis: None specified
- 156 [LAC 33:III.2107.C] Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired.
- 157 [LAC 33:III.2107.D] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2.
- 158 [LAC 33:III.2107.E] Determine compliance with LAC 33:III.2107.B using the methods in LAC 33:III.2107.E.1 through 5, as appropriate.

EQT 0762 EO08(b) - TK 335 Lean Absorbent Vessel

- 159 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

- 160 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
No additional controls are required for MACT.

FUG 0004 4-87 - EO/EG/Gas Additives Fugitives

- 161 [40 CFR 63.162(c)] Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 162 [40 CFR 63.162(f)] Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 163 [40 CFR 63.163(b)(1)] Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- 164 [40 CFR 63.163(b)(3)] Which Months: All Year Statistical Basis: None specified

Page 13 of 26

TP000147

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

FUG 0004 4-87 - EO/EG/Gas Additives Fugitives

- 165 [40 CFR 63.163(c)] Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 166 [40 CFR 63.163(d)(2)] Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 167 [40 CFR 63.163(d)(4)] Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 168 [40 CFR 63.163(e)(1)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-loop system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Subpart H. [40 CFR 63.163(e)(1)]
- 169 [40 CFR 63.163(e)(2)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.163(e)(2)]
- 170 [40 CFR 63.163(e)(3)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(3)]
- 171 [40 CFR 63.163(e)(4)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- 172 [40 CFR 63.163(e)(6)(i)] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(6)(i)]
- 173 [40 CFR 63.163(e)(6)] Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.163(e)(6)]
- 174 [40 CFR 63.163(e)] Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)]
- 175 [40 CFR 63.163(j)(1)] Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Subpart H. [40 CFR 63.163(j)(1)]
- 176 [40 CFR 63.163(j)(2)] Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.163(j)(2)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

FUG 0004 4-87 - EO/EG/Gas Additives Fugitives

- Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart H. [40 CFR 63.164(i)(2)]
- Which Months: All Year Statistical Basis: None specified
- Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H.
- Which Months: All Year Statistical Basis: None specified
- Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- Which Months: All Year Statistical Basis: None specified
- Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart V. [40 CFR 63.165(d)(2)]
- Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H.

SPECIFIC REQUIREMENTS

All ID: 2049 - BASF Corp
Activity Number: PER20080025
Permit Number: 2459-V4
Air - Title V Regular Permit Renewal

FUG 0004 4-87 - EO/EG/Gas Additives Fugitives

- 190 [40 CFR 63.167] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H.
- 191 [40 CFR 63.168(g)(1)] Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
- Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
- 192 [40 CFR 63.168(g)(2)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- 193 [40 CFR 63.168(e)(1)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(e)(3)]
- 194 [40 CFR 63.168(d)(3)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(d)]
- 195 [40 CFR 63.168(f)] Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(b)(1)]
- 196 [40 CFR 63.168(h)(1)] Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.168(h)(2)]
- 197 [40 CFR 63.168(h)(2)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Subpart H. [40 CFR 63.168(i)(1)]
- 198 [40 CFR 63.168(i)(1)] Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Subpart H. [40 CFR 63.168(i)(3)]
- 199 [40 CFR 63.168(i)(3)] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

FUG 0004 4-87 - EO/EG/Gas Additives Fugitives

Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169 (a)]

Which Months: All Year Statistical Basis: None specified

Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]

Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H.

Permittee shall comply with all applicable requirements of NESHAP. 40 CFR 63.172 - Standards: Closed-vent systems and control devices. Subpart H.

Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(i) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(i) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 2.1 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 2.1 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 2.1 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]

Which Months: All Year Statistical Basis: None specified

200 [40 CFR 63.169(a)]

201 [40 CFR 63.169(c)]

202 [40 CFR 63.170]

203 [40 CFR 63.172]

204 [40 CFR 63.174(b)(1)]

205 [40 CFR 63.174(b)(2)]

206 [40 CFR 63.174(b)(3)(i)]

207 [40 CFR 63.174(b)(3)(ii)]

208 [40 CFR 63.174(c)(1)(i)]

SPECIFIC REQUIREMENTS

All ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 All - Title V Regular Permit Renewal

FUG 0004 4-87 - EO/EG/Gas Additives Fugitives

- 209 [40 CFR 63.174(c)(2)(i)] Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169.
 Subpart H. [40 CFR 63.174(c)(2)(i)]
- 210 [40 CFR 63.174(c)(2)(ii)] Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 211 [40 CFR 63.174(d)] Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 212 [40 CFR 63.174(f)(1)] Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Subpart H. [40 CFR 63.174(f)(1)]
- 213 [40 CFR 63.174(f)(2)] Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Subpart H. [40 CFR 63.174(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- 214 [40 CFR 63.174(g)] Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(g)]
- 215 [40 CFR 63.174(h)(2)] Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(h)(2)]
- 216 [40 CFR 63.174(i)] Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2).
 Subpart H. [40 CFR 63.174(i)]
- 217 [40 CFR 63.180] Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.
- 218 [40 CFR 63.181] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
- 219 [40 CFR 63.2346(c)] Gasoline Additives Blending Facility: Comply with the applicable requirements under 40 CFR 63 Subpart H. Subpart EEEE. [40 CFR 63.2346(c)]
- 220 [LAC 33:III.2|22.C.1.d] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 221 [LAC 33:III.2|22.C.1.c] Repair according to LAC 33:III.2|22.C.3. any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration, except those covered under LAC 33:III.2|22.C.1.d.
- 222 [LAC 33:III.2|22.C.1.d] Pumps and valves in heavy liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days if observed leaking by sight, sound, or smell. Repair according to LAC 33:III.2|22.C.3. if the pump or valve is determined to be leaking in excess of the applicable limits given in LAC 33:III.2|22.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
Activity Number: PER20080025
Permit Number: 2459-V4
AIr - Title V Regular Permit Renewal

FUG 004 4-87 - EO/EG/Gas Additives Fugitives

Do not locate any valve, except safety pressure relief valves, at the end of a pipe or line containing volatile organic compounds unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.

Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2122, within 15 days, except as provided.

Determine the percent of leaking components at a process unit for a test period using the equation in LAC 33:III.2122.C.4.

Determine the total percent of leaking and unrepairable components using the equation in LAC 33:III.2122.C.5.

Process drains: VOC; Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3.

Which Months: All Year Statistical Basis: None specified

Compressor seals: VOC; Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3.

Which Months: All Year Statistical Basis: None specified

Pressure relief valves in gas service: VOC; Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions).

Which Months: All Year Statistical Basis: None specified

Pumps in liquid service: VOC; Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3.

Which Months: All Year Statistical Basis: None specified

Values in gas service: VOC; Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions).

Which Months: All Year Statistical Basis: None specified

Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times a year).
 Which Months: All Year Statistical Basis: None specified

Flanged connectors: Presence of a leak monitored by visual, audible, and/or olfactory weekly.
 Which Months: All Year Statistical Basis: None specified

Flanged connectors: VOC; Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly.
 Which Months: All Year Statistical Basis: None specified

Instrumentation systems: Presence of a leak monitored by visual, audible, and/or olfactory weekly.
 Which Months: All Year Statistical Basis: None specified

223 [LAC 33:III.2122.C.2]

224 [LAC 33:III.2122.C.3]

225 [LAC 33:III.2122.C.4]

226 [LAC 33:III.2122.C.5]

227 [LAC 33:III.2122.D.1.a.]

228 [LAC 33:III.2122.D.1.b.i]

229 [LAC 33:III.2122.D.1.b.ii]

230 [LAC 33:III.2122.D.1.b.iii]

231 [LAC 33:III.2122.D.1.b.iv]

232 [LAC 33:III.2122.D.1.b.v]

233 [LAC 33:III.2122.D.1.c]

234 [LAC 33:III.2122.D.1.d.i]

235 [LAC 33:III.2122.D.1.d.ii]

236 [LAC 33:III.2122.D.1.e]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

FUG 0004 4-87 - EO/EG/Gas Additives Fugitives

237 [LAC 33:III.2122.D.3.a]

Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 1,000 ppmv or greater (for petroleum refineries, SOCMI, MTBE, and polymer manufacturing industry) or 2,500 ppmv or greater (for natural gas processing plants) is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3.

238 [LAC 33:III.2122.D.3.b]

Which Months: All Year Statistical Basis: None specified
 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2122.C.3.

239 [LAC 33:III.2122.D.3.c]

Which Months: All Year Statistical Basis: None specified
 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).

240 [LAC 33:III.2122.D.3.d]

Which Months: All Year Statistical Basis: None specified
 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.

241 [LAC 33:III.2122.F.1]

Which Months: All Year Statistical Basis: None specified
 When a component which has a leak that cannot be repaired, as described in LAC 33:III.2122.C, is located; affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Remove the tag after the leak has been repaired.

242 [LAC 33:III.2122.F]

Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2122.F.2. a through j. Retain the survey log for two years after the latter date specified in LAC 33:III.2122.F.2 and make said log available to DEQ upon request.

243 [LAC 33:III.2122.G]

Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology Division. Include the information specified in LAC 33:III.2122.G.1 through 6 for each calendar quarter during the reporting period. Comply with LAC 33:III.2122, 40 CFR 60 Subpart VV, and 40 CFR 63 Subpart H by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with 40 CFR 63 Subpart H for streams in OHAP service (see Part 70 Specific Condition No. 1 in the Air Permit Briefing Sheet).

244 [LAC 33:III.501]

Comply with all applicable requirements of LAC 33:III.2122 for equipment in the Ethylene Oxide (EO) and Ethylene Glycol (EG) Plants (excluding equipment in the Gasoline Additives Blending Facility which is not a SOCMI unit) which are in VOC service, but not in OHAP service as defined in 40 CFR 63.161 of Subpart H.

245 [LAC 33:III.501]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. For equipment in OHAP service as defined in 40 CFR 63.161 of Subpart H, MACT is determined to be compliance with the requirements of 40 CFR 63 Subpart H (HON).

UNF 0010 Geismar Site - EO/EG Plant

247 [40 CFR 60.]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
Activity Number: PER20080025
Permit Number: 2459-V4
Air - Title V Regular Permit Renewal

UNF 0010 Geismar Site - EO/EG Plant

- 249 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- 250 [40 CFR 61.351] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (l), as applicable. Subpart FF.
- 251 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 252 [40 CFR 61.357(b)] Submit report: Due whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more. Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3). Subpart FF. [40 CFR 61.357(b)]
- 253 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 254 [40 CFR 63.112(a)] Control emissions of organic HAP's to the level represented by the equation listed in 40 CFR 63.112(a). Subpart G. [40 CFR 63.112(a)]
- 255 [40 CFR 63.112(c)] Demonstrate compliance with the emission standard in 40 CFR 63.112(a) by following the procedures specified in 40 CFR 63.112(c) for all emission points, or by following the emissions averaging compliance approach specified in 40 CFR 63.112(f) for some emission points and the procedures specified in 40 CFR 63.112(e) for all other emission points within the source. Subpart G. [40 CFR 63.112(c)]
- 256 [40 CFR 63.152(c)] Submit Periodic Reports: Due semiannually no later than 60 calendar days after the end of each 6-month period, except as specified in 40 CFR 63.152(c)(5) and (c)(6). Submit the first report no later than 8 months after the date the Notification of Compliance Status is due. Include the information specified in 40 CFR 63.152(c)(2) through (c)(4). Subpart G. [40 CFR 63.152(c)]
- 257 [40 CFR 63.152(f)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records as specified in 40 CFR 63.152(f)(1) through (f)(7). Subpart G. [40 CFR 63.152(f)]
- 258 [40 CFR 63.2350(a)] Be in compliance with the emission limitations, operating limits, and work practice standards in 40 CFR 63 Subpart EEEE at all times when the equipment identified in 40 CFR 63.2338(b)(1) through (4) is in OLD operation. Subpart EEEE. [40 CFR 63.2350(a)]
- 259 [40 CFR 63.6(e)(1)(i)] Always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). Subpart EEEE. [40 CFR 63.2350(b)]
- 260 [40 CFR 63.2350(c)] Develop a written startup, shutdown, and malfunction (SSM) plan according to the provisions in 40 CFR 63.6(c)(3), except for emission sources not required to be controlled as specified in 40 CFR 63.2343. Subpart EEEE. [40 CFR 63.2350(c)]
- 261 [40 CFR 63.2378(b)(1)] Comply with the emission limitations in 40 CFR 63 Subpart EEEE at all times except during periods of nonoperation resulting in cessation of the emissions. Subpart EEEE. [40 CFR 63.2378(b)(1)]
- 262 [40 CFR 63.2378(b)(3)] Implement during SSM, to the extent reasonably available, measures to prevent or minimize excess emissions. Identify the measures to be taken in the SSM plan. Subpart EEEE. [40 CFR 63.2378(b)(3)]
- 263 [40 CFR 63.2378(b)] Follow the requirements in 40 CFR 63.6(c)(1) and (3) during periods of startup, shutdown, malfunction, or nonoperation of any affected source or any part thereof. Subpart EEEE. [40 CFR 63.2378(b)]
- 264 [40 CFR 63.2382(c)] Submit Notification of Intent to conduct performance test: Due to DEQ at least 60 calendar days before performance test is initially scheduled to begin as required in 40 CFR 63.7(b)(1). Subpart EEEE. [40 CFR 63.2382(c)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459.V4
 Air - Title V Regular Permit Renewal

UNF 0010 Gelsmar Site - EO/EG Plant

- 265 [40 CFR 63.2382(d)(2)(iii)] Submit request to DEQ, Air Permits Division, that operating limits established during the performance test be incorporated into the permit through an administrative amendment. [40 CFR 63.2382(d)(2)(iii)]
- 266 [40 CFR 63.2382(d)] Submit Notification of Compliance Status. Due to DEQ. Include the information specified in 40 CFR 63.999(b) and 63.2382(d)(2)(i) through (d)(2)(viii). Subpart EEEE. [40 CFR 63.2382(d)]
- 267 [40 CFR 63.2386(a)] Submit SSM report: Due to DEQ by letter within 7 working days after the end of a SSM that resulted in an applicable emission standard in the relevant standard being exceeded, and actions were taken that were not consistent with the SSM plan, unless alternative arrangements have been made with DEQ. Include the information specified in 40 CFR 63.10(d)(5)(ii). Subpart EEEE. [40 CFR 63.2386(a)]
- 268 [40 CFR 63.2386(a)] Submit compliance status report: Due semiannually, by the 30th of January and July, to DEQ in accordance with 40 CFR 63.2386(b). Include the information specified in 40 CFR 63. Subpart EEEE Table 11 Items 1.a through 1.d, as applicable. Subpart EEEE. [40 CFR 63.2386(a)]
- 269 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- 270 [40 CFR 68.12(b)(1)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 68.22. [40 CFR 68.12(b)(1)]
- 271 [40 CFR 68.12(b)(2)] Complete the five-year accident history for the process as provided in 68.42. [40 CFR 68.12(b)(2)]
- 272 [40 CFR 68.12(b)(3)] Ensure that response actions have been coordinated with local emergency planning and response agencies. [40 CFR 68.12(b)(3)]
- 273 [40 CFR 68.12(b)(4)] Include in the RMP the certification specified in 68.12(b)(4). [40 CFR 68.12(b)(4)]
- 274 [40 CFR 68.150] Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.
- 275 [40 CFR 68.155] Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
- 276 [40 CFR 68.160] Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
- 277 [40 CFR 68.165] Submit in the RMP information one worst-case release scenario for each Program I process. Include the data specified in 68.165(b)(1) through (13).
- 278 [40 CFR 68.168] Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
- 279 [40 CFR 68.180] Provide in the RMP the emergency response information listed in 68.180(a) through (c).
- 280 [40 CFR 68.190(c)] Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 281 [40 CFR 68.190] Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999.
- 282 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 283 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
- 284 [40 CFR 68.25] Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
- 285 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

UNF 0010 Galsmar Site - EO/EG Plant

- 286 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
 List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 287 [40 CFR 68.33] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 288 [40 CFR 68.36(b)] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 289 [40 CFR 68.36] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.
- 290 [40 CFR 68.39] Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- 291 [40 CFR 68.42] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 292 [40 CFR 82. Subpart F] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 293 [LAC 33:III.1103] Outdoor burning of waste material or other combustible material is prohibited.
- 294 [LAC 33:III.1109.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 295 [LAC 33:III.1303.B] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 296 [LAC 33:III.2113.A] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 297 [LAC 33:III.2191] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 298 [LAC 33:III.2901.D] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 299 [LAC 33:III.2901.F]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-V4
 Air - Title V Regular Permit Renewal

UNF 0010 Gelsmar Site - EO/EG Plant

- 300 [LAC 33:III.501.C.6] Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- 301 [LAC 33:III.501.C.6] Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, Ethylene, Propylene, Toluene, Xylene, m-p-Xylene, o-Xylene. (State Only).
- 302 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 303 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 304 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 305 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 306 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 307 [LAC 33:III.5107.A] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 308 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 309 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.393.1, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 310 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- 311 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.1 through B.4.a.viii.

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
 Activity Number: PER20080025
 Permit Number: 2459-Y4
 Air - Title V Regular Permit Renewal

UNF 0010 Gelsmar Site - EO/EG Plant

- Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity. IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later.
- Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

SPECIFIC REQUIREMENTS

AJ ID: 2049 - BASF Corp
Activity Number: PER20080025
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Air - Title V Regular Permit Renewal